



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION VIII

999 18th STREET - SUITE 500
DENVER, COLORADO 80202-2466

Ref: 8P2-W-GW

MAY - 4 1998

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Ms. Kathy Turner
Petroleum Engineering Technician
Petroglyph Operating Company, Inc.
P. O. Box 1839
Hutchinson, Kansas 67504-1839

RE: **UNDERGROUND INJECTION CONTROL (UIC)**
Conversion of Additional Well to
Antelope Creek Waterflood
EPA Area Permit UT2736-00000
Duchesne County, Utah

Dear Ms. Turner:

Your letter of December 20, 1997, requesting that the following production well be converted to a Class II enhanced oil recovery well and added to the Antelope Creek Waterflood, as authorized under the Modified EPA Area Permit #UT2736-00000 is hereby granted.

<u>NAME</u>	<u>LOCATION</u>	<u>EPA WELL PERMIT NO.</u>
<i>Ute Tribal #33-14D3</i>	SE/SW Section 33 T 4 S - R 3 W Duchesne County, UT	#UT2736-04420

This additional well is within the boundary of the recently modified area permit for the Antelope Creek Waterflood (UT2736-00000), and this addition is made under the provisions of 40 CFR § 144.33 (c) as long as all terms and conditions of the permit are met. Unless specifically mentioned in this conversion, all terms and conditions of the modification to the permit will apply to the construction, operation, monitoring, and plugging and abandonment of this additional injection well. The proposed well location, well schematic, conversion procedures, plugging and abandonment plan and schematic, submitted by your office, have been reviewed and approved as follows:

- (1) The **conversion** of this production well has been reviewed, and found satisfactory, therefore, no corrective action is required.
- (2) **Maximum injection pressure (Pmax)** - the permittee shall limit the maximum surface injection pressure (Pmax) to 2369 psig. Permit provision have been made that allow the operator to request an increase or decrease in the injection pressure.



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The calculations for the fracture gradient (0.98 psi/ft.) was estimated from the average of the two offset permitted injection wells: Ute Tribal #33-08D3 and Ute Tribal #33-16D3. The theoretical maximum allowable surface injection pressure is calculated as shown below:

$$P_{max} = [F_g - 0.433 (S_g)] d$$

Where: P_{max} = Maximum surface injection pressure at wellhead

d = 4330' shallowest perforations after conversion

S_g = Specific gravity of injected water

$$P_{max} = [0.98 - .433 (1.00)] 4330$$

$$P_{max} = 2369 \text{ psig}$$

Until such time as the permittee demonstrates that a fracture gradient other than 0.98 psi/ft applies to the disposal zones of this newly converted well, the maximum allowable wellhead injection pressure (P_{max}) for this well will be 2369 psig.

- (3) The plugging and abandonment plan and schematic, submitted by your office, has been reviewed, and approved.

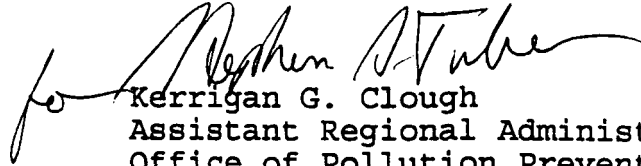
Prior to commencing injection into this well, permittee must fulfill permit condition Part II, C. 2. and have received separate written authorization to inject by the Environmental Protection Agency. In summary, these requirements for your newly permitted injection well are:

- (1) All conversion is complete and the permittee has submitted a completed Well Rework Record (EPA Form 7520-12).
- (2) The pore pressure has been determined.
- (3) The well has successfully completed and passed a mechanical integrity test (MIT); EPA form enclosed.

All other provisions and conditions of the permit remain as originally issued.

If you have any questions, please contact Mr. Chuck Williams at (303) 312-6625. Also, please direct the above requirements to Mr. Williams at the above letterhead address, citing MAIL CODE 8P2-W-GW. Thank you for your continued cooperation.

Sincerely,

A handwritten signature in cursive script, appearing to read "Kerrigan G. Clough".

Kerrigan G. Clough
Assistant Regional Administrator
Office of Pollution Prevention,
State and Tribal Assistance

Enclosure: EPA Form

cc: Mr. Ronald Wopsock, Chairman
Uintah & Ouray Business Committee

Ms. Elaine Willie, Environmental Director
Ute Indian Tribe

Norman Cambridge
BIA - Uintah & Ouray Agency

Mr. Jerry Kenczka
BLM - Vernal District Office

Mr. Gilbert Hunt
State of Utah Natural Resources
Division of Oil, Gas & Mining

5/6/98 CW 3294C *Ute Tribal #33-14D3*

SENDER:

- Complete items 1 and/or 2 for additional services.
- Complete items 3, 4a, and 4b.
- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write "Return Receipt Requested" on the mailpiece below the article number.
- The Return Receipt will show to whom the article was delivered and the date delivered.

3. Article Addressed to:
Ms. Kathy Turner
Geology/Petroleum Engineering Technician
Petroglyph Operating Company, Inc.
P.O. Box 1839
Hutchinson, KS 67504-1839

4a. Article Number
P 213 403 795

4b. Service Type
☐ Registered ☒ Certified
☐ Express Mail ☐ Insured
☐ Return Receipt for Merchandise ☐ COD

7. Date of Delivery
MAY - 8 1998

5. Received By: (Print Name)
Kathy Turner

6. Signature: (Addressee or Agent)
X Kathy Turner

8. Addressee's Address (Only if requested and fee is paid)
rec'd LP
MAY 11 1998

I also wish to receive the following services (for an extra fee):
 1. ☐ Addressee's Address
 2. ☐ Restricted Delivery
 Consult postmaster for fee.

PS Form 3811, December 1994 Domestic Return Receipt

Is your RETURN ADDRESS completed on the reverse side?

Thank you for using Return Receipt Service.

P 213 403 795
5/6/98 CW 3294C
 US Postal Service
Receipt for Certified Mail
 No Insurance Coverage Provided.
 Do not use for International Mail (See reverse)

Sent to	
Ms. Kathy Turner	
Geology/Petroleum Engineering Technician	
Petroglyph Operating Company, Inc.	
P.O. Box 1839	Inc.
Hutchinson, KS	67504-1839
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, & Addressee's Address	
TOTAL Postage & Fees	\$
Postmark or Date	

PS Form 3800, April 1995

MAY 4 1998

Ref: 8P2-W-GW

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Ms. Kathy Turner
Petroleum Engineering Technician
Petroglyph Operating Company, Inc.
P. O. Box 1839
Hutchinson, Kansas 67504-1839

RE: **UNDERGROUND INJECTION CONTROL (UIC)**
Conversion of Additional Well to
Antelope Creek Waterflood
EPA Area Permit UT2736-00000
Duchesne County, Utah

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Ute Tribal #33-14D3	SE/SW Section 33 T 4 S - R 3 W Duchesne County, UT	#UT2736-04420

This additional well is within the boundary of the recently modified area permit for the Antelope Creek Waterflood (UT2736-00000), and this addition is made under the provisions of 40 CFR § 144.33 (c) as long as all terms and conditions of the permit are met. Unless specifically mentioned in this conversion, all terms and conditions of the modification to the permit will apply to the construction, operation, monitoring, and plugging and abandonment of this additional injection well. The proposed well location, well schematic, conversion procedures, plugging and abandonment plan and schematic, submitted by your office, have been reviewed and approved as follows:

- (1) The **conversion** of this production well has been reviewed, and found satisfactory, therefore, no corrective action is required.
- (2) **Maximum injection pressure (Pmax)** - the permittee shall limit the maximum surface injection pressure (Pmax) to **2369 psig**. Permit provision have been made that allow the operator to request an increase or decrease in the injection pressure.

CEW
8P2-W-GW
4/30/98

OK
8P2-W-GW
5/4/98 LG
mailed
5/6/98 LG

8P2-W-GW
5/4/98

Tubur
8P2-W
5-4-98

The calculations for the fracture gradient (0.98 psi/ft.) was estimated from the average of the two offset permitted injection wells: Ute Tribal #33-08D3 and Ute Tribal #33-16D3. The theoretical maximum allowable surface injection pressure is calculated as shown below:

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Where: P_{max} = Maximum surface injection pressure at wellhead

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Until such time as the permittee demonstrates that a fracture gradient other than 0.98 psi/ft applies to the disposal zones of this newly converted well, the maximum allowable wellhead injection pressure (P_{max}) for this well will be 2369 psig.

- (3) The **plugging and abandonment plan and schematic**, submitted by your office, has been reviewed, and approved.

Prior to commencing injection into this well, permittee must fulfill permit condition Part II, C. 2. and have received **separate written authorization to inject by the Environmental Protection Agency**. In summary, these requirements for your newly permitted injection well are:

- (1) All conversion is complete and the permittee has submitted a completed **Well Rework Record (EPA Form 7520-12)**.
- (2) The **pore pressure has been determined**.
- (3) The well has successfully completed and passed a **mechanical integrity test (MIT)**; EPA form enclosed.

All other provisions and conditions of the permit remain as originally issued.

If you have any questions, please contact Mr. Chuck Williams at (303) 312-6625. Also, please direct the above requirements to Mr. Williams at the above letterhead address, citing **MAIL CODE 8P2-W-GW**. Thank you for your continued cooperation.

Sincerely,

Kerrigan G. Clough
Assistant Regional Administrator
Office of Pollution Prevention,
State and Tribal Assistance

Enclosure: EPA Form

cc: Mr. Ronald Wopsock, Chairman
Uintah & Ouray Business Committee

Ms. Elaine Willie, Environmental Director
Ute Indian Tribe

Norman Cambridge
BIA - Uintah & Ouray Agency

Mr. Jerry Kenczka
BLM - Vernal District Office

Mr. Gilbert Hunt
State of Utah Natural Resources
Division of Oil, Gas & Mining

FCD: May 1, 1998. Chuck W., F:\DATA\WP\PETROGLF\MNRMD-33.14D



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 8

1595 Wynkoop Street
DENVER, CO 80202-1129
Phone 800-227-8917
<http://www.epa.gov/region08>

JAN 14 2015

Ref: 8ENF-UFO

CERTIFIED MAIL 7009-3410-0000-2599-4623
RETURN RECEIPT REQUESTED

Mr. Les Farnsworth, District Supervisor
Petroglyph Operating Company, Inc.
4116 W 3000 S Ioka Lane
P.O. Box 607
Roosevelt, Utah 84066

Re: Underground Injection Control (UIC)
Permission to Resume Injection
Ute Tribal 33-14-D3 Well
EPA ID# UT20736-04420
API # 43-013-31936
Antelope Creek Oil Field
Duchesne County, UT

Dear Mr. Farnsworth:

On December 29, 2014, the Environmental Protection Agency (EPA) received information from Petroglyph Operating Company, Inc. on the above referenced well concerning the workover to address a loss of mechanical integrity and the followup mechanical integrity test (MIT) conducted on December 22, 2014. The data submitted shows that the well passed the required MIT. Therefore, pursuant to Title 40 of the Code of Federal Regulations Section 144.51(q)(2) (40 C.F.R. § 144.51(q)(2)), permission to resume injection is granted. Under continuous service, the next MIT will be due on or before December 22, 2019.

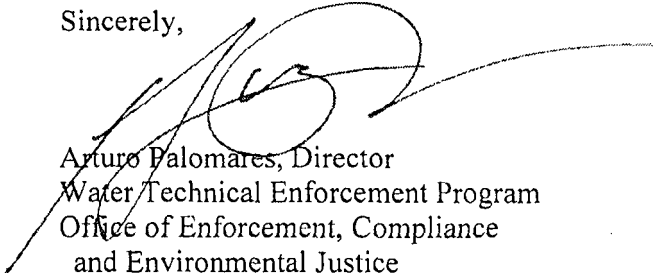
Pursuant to 40 C.F.R. § 144.52(a)(6), if the well is not used for a period of at least two (2) years ("temporary abandonment"), it shall be plugged and abandoned unless the EPA is notified and procedures are described to the EPA ensuring the well will not endanger underground sources of drinking water ("non-endangerment demonstration") during its continued temporary abandonment. A successful MIT is an acceptable non-endangerment demonstration and would be necessary every two (2) years the well continues in temporary abandonment.

Failure to comply with a UIC Permit, or the UIC regulations found at 40 C.F.R. Parts 144 through 148 constitute one or more violations of the Safe Drinking Water Act, 42 U.S.C. § 300h. Such non-compliance may subject you to formal enforcement by the EPA, as codified at 40 C.F.R. Part 22.

	GREEN	BLUE	CBI
TAB		1	

If you have any questions concerning this letter, you may contact Don Breffle at (303) 312-6198. Please direct all correspondence to the attention of Don Breffle at Mail Code 8ENF-UFO.

Sincerely,



Arturo Palomares, Director
Water Technical Enforcement Program
Office of Enforcement, Compliance
and Environmental Justice

cc: Gordon Howell, Chairman, Uintah & Ouray Business Committee
Ronald Wopsock, Vice-Chairman, Uintah & Ouray Business Committee
Reannin Tapoof, Executive Assistant, Uintah & Ouray Business Committee
Stewart Pike, Councilman, Uintah & Ouray Business Committee
Tony Small, Councilman, Uintah & Ouray Business Committee
Bruce Ignacio, Councilman, Uintah & Ouray Business Committee
Phillip Chimburas, Councilman, Uintah & Ouray Business Committee
Manuel Myore, Director of Energy, Minerals and Air Programs
Brad Hill, Utah Division of Oil, Gas and Mining

bcc: Jennifer Harris (8P-TA)
Kimberly Pardue-Welch (8ENF-W)

Cc addresses:

Gordon Howell, Chairman
Uintah & Ouray Business Committee
P.O. Box 70
Fort Duchesne, Utah 84026

Reannin Tapoof, Executive Assistant
Uintah & Ouray Business Committee
P.O. Box 70
Fort Duchesne, Utah 84026

Tony Small, Councilman
Uintah & Ouray Business Committee
P.O. Box 70
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Phillip Chimburas, Councilman
Uintah & Ouray Business Committee
P.O. Box 70
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Ronald Wopsock, Vice-Chairman
Uintah & Ouray Business Committee
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Fort Duchesne, Utah 84026

Bruce Ignacio, Councilman
Uintah & Ouray Business Committee
P.O. Box 70
Fort Duchesne, Utah 84026

Manuel Myore, Director of Energy,
Minerals and Air Programs
Ute Indian Tribe
P.O. Box 70
Fort Duchesne, Utah 84026

Brad Hill
Utah Division of Oil, Gas and Mining
P.O. Box 145801
Salt Lake City, Utah 84114



SENDER: COMPLETE THIS SECTION		COMPLETE THIS SECTION ON DELIVERY	
<ul style="list-style-type: none"> Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits. 		<p>A. Signature <input checked="" type="checkbox"/> Agent <input type="checkbox"/> Addressee</p> <p>B. Received by (Printed Name) <u>Julie Ray</u> C. Date of Delivery <u>JAN 22 2015</u></p> <p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes <input type="checkbox"/> No If YES, enter delivery address below:</p>	
<p>1. Article Addressed to:</p> <p style="text-align: center;">JAN 15 2015</p> <p>Mr. Less Farnsworth, District Supervisor Petroglyph Operating Company, Inc. 4116 W 3000 S Ioka Lane P.O. Box 607 Roosevelt, UT 84066</p>		<p>3. Service Type</p> <p><input type="checkbox"/> Certified Mail <input type="checkbox"/> Express Mail</p> <p><input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise</p> <p><input type="checkbox"/> Insured Mail <input type="checkbox"/> C.O.D.</p>	
<p>2. Article Number (Transfer from service label)</p> <p>7009 3410 0000 2599 4623</p>		<p>4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes</p>	

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540

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For delivery information visit our website at www.usps.com	
OFFICIAL USE	
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Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement)	
Total	Mr. Less Farnsworth, District Supervisor Petroglyph Operating Company, Inc. 4116 W 3000 S Ioka Lane P.O. Box 607 Roosevelt, UT 84066
Sent To	
Street, or P.O. Box	
City, State, ZIP+4	
PS Form 3800, August 2006 See Reverse for Instructions	



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 8

1595 Wynkoop Street
DENVER, CO 80202-1129
Phone 800-227-8917
<http://www.epa.gov/region08>

Ref: 8ENF-UFO

CONCURRENCE COPY

CERTIFIED MAIL 7009-3410-0000-2599-4623
RETURN RECEIPT REQUESTED

Mr. Les Farnsworth, District Supervisor
Petroglyph Operating Company, Inc.
4116 W 3000 S Ioka Lane
P.O. Box 607 / *Utah*
Roosevelt, UT 84066

Re: Underground Injection Control (UIC)
Permission to Resume Injection
Ute Tribal 33-14-D3 Well
EPA ID# UT20736-04420
API # 43-013-31936
Antelope Creek Oil Field
Duchesne County, UT

Dear Mr. Farnsworth:

(EPA)
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Failure to comply with a UIC Permit, or the UIC regulations found at 40 C.F.R. Parts 144 through 148 constitute one or more violations of the Safe Drinking Water Act, 42 U.S.C. § 300h. Such non-compliance may subject you to formal enforcement by the EPA, as codified at 40 C.F.R. Part 22.

J. Ball
8ENF-UFO
1/6/15

If you have any questions concerning this letter, you may contact Don Breffle at (303) 312-6198. Please direct all correspondence to the attention of Don Breffle at Mail Code 8ENF-UFO.

Sincerely,

Arturo Palomares, Director
Water Technical Enforcement Program
Office of Enforcement, Compliance
and Environmental Justice

cc: Gordon Howell, Chairman, Uintah & Ouray Business Committee
Ronald Wopsock, Vice-Chairman, Uintah & Ouray Business Committee
Reannin Tapoof, Executive Assistant, Uintah & Ouray Business Committee
Stewart Pike, Councilman, Uintah & Ouray Business Committee
Tony Small, Councilman, Uintah & Ouray Business Committee
Bruce Ignacio, Councilman, Uintah & Ouray Business Committee
Phillip Chimburas, Councilman, Uintah & Ouray Business Committee
Manuel Myore, Director of Energy, Minerals and Air Programs
Brad Hill, Utah Division of Oil, Gas and Mining

bcc: Jennifer Harris (8P-TA)
Kimberly Pardue-Welch (8ENF-W)

Cc addresses:

Gordon Howell, Chairman
Uintah & Ouray Business Committee
P.O. Box 70
Fort Duchesne, Utah 84026

Ronald Wopsock, Vice-Chairman
Uintah & Ouray Business Committee
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Fort Duchesne, Utah 84026

Manuel Myore, Director of Energy,
Minerals and Air Programs
Ute Indian Tribe
P.O. Box 70
Fort Duchesne, Utah 84026

Brad Hill
Utah Division of Oil, Gas and Mining
P.O. Box 145801
Salt Lake City, Utah 84114





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 8

1595 Wynkoop Street
DENVER, CO 80202-1129
Phone 800-227-8917
<http://www.epa.gov/region08>

DEC 12 2014

Ref: 8ENF-UFO

CERTIFIED MAIL 7009-3410-0000-2599-4555
RETURN RECEIPT REQUESTED

Mr. Les Farnsworth, District Supervisor
Petroglyph Operating Company, Inc.
4116 W 3000 S Ioka Lane
P.O. Box 607
Roosevelt, UT 84066

Re: Underground Injection Control (UIC)
Notice of Violation:
Loss of Mechanical Integrity
Ute Tribal 33-14-D3 Well
EPA Well ID# UT20736-04420
API # 43-013-31936
Antelope Creek Oil Field
Duchesne County, UT

Dear Mr. Farnsworth:

On November 24, 2014, the Environmental Protection Agency learned that the Petroglyph Operating Company, Inc. injection well referenced above lost mechanical integrity on November 14, 2014. Pursuant to the above-referenced UIC Permit and Title 40 of the Code of Federal Regulations Section 144.51(q)(1) (40 C.F.R. § 144.51(q)(1)), you must establish and maintain mechanical integrity. A loss of mechanical integrity is a violation of this requirement.

Pursuant to the above-referenced UIC Permit and the regulations at 40 C.F.R. § 144.51(q)(2), you must immediately cease injection into this well. Before injection may resume, you must demonstrate that the well has mechanical integrity by passing a mechanical integrity test (MIT). You must also receive written authorization from the EPA.

Within thirty (30) days of receipt of this letter, please submit a letter describing what action you intend to take regarding the well, including a time frame in which you anticipate the work to be completed. It is expected that you will return this well to compliance within ninety (90) days of the loss of mechanical integrity.

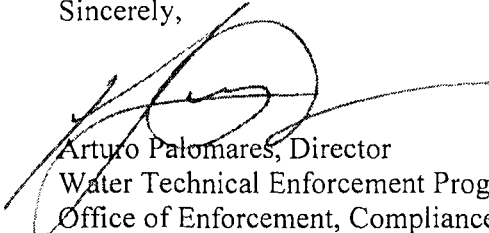
If you choose to plug and abandon this well, the approved plugging and abandonment plan that is incorporated into the permit must be followed. Any deviation from that plan must be submitted to the EPA for approval prior to the plugging operation.

	GREEN	BLUE	CBI
TAB		5	

Failure to comply with the UIC regulations found at 40 C.F.R. Parts 144 through 148 constitutes one or more violations of the Safe Drinking Water Act, 42 U.S.C. § 300h. Such non-compliance may subject you to formal enforcement by the EPA, as codified at 40 C.F.R. Part 22.

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Sincerely,



Arturo Palomares, Director
Water Technical Enforcement Program
Office of Enforcement, Compliance
and Environmental Justice

cc: Gordon Howell, Chairman, Uintah & Ouray Business Committee
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Bruce Ignacio, Councilman, Uintah & Ouray Business Committee
Phillip Chimburas, Councilman, Uintah & Ouray Business Committee
Manuel Myore, Director of Energy, Minerals and Air Programs
John Rogers, Associate Director, Oil & Gas, Utah Division of Oil, Gas and Mining

SENDER: COMPLETE THIS SECTION		COMPLETE THIS SECTION ON DELIVERY	
<ul style="list-style-type: none"> Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits. 		A. Signature X <i>Julie Lane</i> <input type="checkbox"/> Agent <input type="checkbox"/> Addressee	
1. Article Addressed to: M DEC 12 2014 Mr. Les Farnsworth, District Supervisor Petroglyph Operating Company, Inc. 4116 W 3000 S Ioka Lane P.O. Box 607 Roosevelt, UT 84066		B. Received by (Printed Name) <i>Julie Lane</i>	C. Date of Delivery 12/16/14
2. Article Number (Transfer from service label)		D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No <div style="text-align: center;">USPS</div>	
3. Service Type <input type="checkbox"/> Certified Mail <input type="checkbox"/> Express Mail <input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Insured Mail <input type="checkbox"/> C.O.D.		4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes	
PS Form 3811, February 2004		Domestic Return Receipt	

7009 3410 0000 2599 4555

102595-02-M-1540

U.S. Postal Service TM

CERTIFIED MAIL TM RECEIPT

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Total Post		
Sent To Mr. Les Farnsworth, District Supervisor Petroglyph Operating Company, Inc. 4116 W 3000 S Ioka Lane P.O. Box 607 Roosevelt, UT 84066		
Street, Apt or PO Box City, State,		

PS Form 3800, August 2006

See Reverse for Instructions

7009 3410 0000 2599 4555

bcc: Jennifer Harris (8P-TA)
Kimberly Pardue-Welch (8ENF-W)

Cc addresses:

Gordon Howell, Chairman
Uintah & Ouray Business Committee
P.O. Box 70
Fort Duchesne, Utah 84026

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Minerals and Air Programs
Ute Indian Tribe
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John Rogers, Associate Director,
Oil & Gas
Utah Division of Oil, Gas and Mining
P.O. Box 145801
Salt Lake City, Utah 84114





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 8

1595 Wynkoop Street
DENVER, CO 80202-1129
Phone 800-227-8917
<http://www.epa.gov/region08>

Ref: 8ENF-UFO

CONCURRENCE COPY

CERTIFIED MAIL 7009-3410-0000-2599-4555
RETURN RECEIPT REQUESTED

Mr. Les Farnsworth, District Supervisor
Petroglyph Operating Company, Inc.
4116 W 3000 S Ioka Lane
P.O. Box 607
Roosevelt, UT 84066

Re: Underground Injection Control (UIC)
Notice of Violation:
Loss of Mechanical Integrity
Ute Tribal 33-14-D3 Well
EPA Well ID# UT20736-04420
API # 43-013-31936
Antelope Creek Oil Field
Duchesne County, UT

Dear Mr. Farnsworth:

On November 24, 2014, the Environmental Protection Agency learned that the Petroglyph Operating Company, Inc. injection well referenced above lost mechanical integrity on November 14, 2014. Pursuant to the above-referenced UIC Permit and Title 40 of the Code of Federal Regulations Section 144.51(q)(1) (40 C.F.R. § 144.51(q)(1)), you must establish and maintain mechanical integrity. A loss of mechanical integrity is a violation of this requirement.

Pursuant to the above-referenced UIC Permit and the regulations at 40 C.F.R. § 144.51(q)(2), you must immediately cease injection into this well. Before injection may resume, you must demonstrate that the well has mechanical integrity by passing a mechanical integrity test (MIT). You must also receive written authorization from the EPA.

Within thirty (30) days of receipt of this letter, please submit a letter describing what action you intend to take regarding the well, including a time frame in which you anticipate the work to be completed. It is expected that you will return this well to compliance within ninety (90) days of the loss of mechanical integrity.

If you choose to plug and abandon this well, the approved plugging and abandonment plan that is incorporated into the permit must be followed. Any deviation from that plan must be submitted to the EPA for approval prior to the plugging operation.

John
JENF-UFO
11/26/14

KPW
8ENF-UFO
12.1.14

Failure to comply with the UIC regulations found at 40 C.F.R. Parts 144 through 148 constitutes one or more violations of the Safe Drinking Water Act, 42 U.S.C. § 300h. Such non-compliance may subject you to formal enforcement by the EPA, as codified at 40 C.F.R. Part 22.

If you have any questions concerning this letter, you may contact Don Breffle at (303) 312-6198. Please direct all correspondence to the attention of Don Breffle at Mail Code 8ENF-UFO.

Sincerely,

Arturo Palomares, Director
Water Technical Enforcement Program
Office of Enforcement, Compliance
and Environmental Justice

cc: Gordon Howell, Chairman, Uintah & Ouray Business Committee
Ronald Wopsock, Vice-Chairman, Uintah & Ouray Business Committee
Reannin Tapoof, Executive Assistant, Uintah & Ouray Business Committee
Stewart Pike, Councilman, Uintah & Ouray Business Committee
Tony Small, Councilman, Uintah & Ouray Business Committee
Bruce Ignacio, Councilman, Uintah & Ouray Business Committee
Phillip Chimburas, Councilman, Uintah & Ouray Business Committee
Manuel Myore, Director of Energy, Minerals and Air Programs
John Rogers, Associate Director, Oil & Gas, Utah Division of Oil, Gas and Mining

bcc: Jennifer Harris (8P-TA)
Kimberly Pardue-Welch (8ENF-W)

Cc addresses:

Gordon Howell, Chairman
Uintah & Ouray Business Committee
P.O. Box 70
Fort Duchesne, Utah 84026

Reannin Tapoof, Executive Assistant
Uintah & Ouray Business Committee
P.O. Box 70
Fort Duchesne, Utah 84026

Tony Small, Councilman
Uintah & Ouray Business Committee
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Fort Duchesne, Utah 84026

Manuel Myore, Director of Energy,
Minerals and Air Programs
Ute Indian Tribe
P.O. Box 70
Fort Duchesne, Utah 84026

John Rogers, Associate Director,
Oil & Gas
Utah Division of Oil, Gas and Mining
P.O. Box 145801
Salt Lake City, Utah 84114





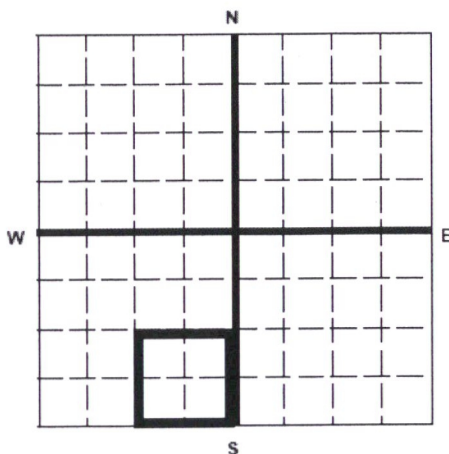
United States Environmental Protection Agency
Washington, DC 20460

ANNUAL DISPOSAL/INJECTION WELL MONITORING REPORT

Name and Address of Existing Permittee
Petroglyph Operating Company, Inc. 2258
P.O. Box 7608
Boise, Idaho 83709

Name and Address of Surface Owner
Ute Indian Tribe
P.O. Box 70
Ft. Duchesne, Utah, 84026

Locate Well and Outline Unit on
Section Plat - 640 Acres



State Utah	County Duchesne	Permit Number UT2736-04420
Surface Location Description ____ 1/4 of ____ 1/4 of SE 1/4 of SW 1/4 of Section <u>33</u> Township <u>4S</u> Range <u>3W</u>		
Locate well in two directions from nearest lines of quarter section and drilling unit Surface Location <u>660</u> ft. from (N/S) <u>S</u> Line of quarter section and <u>1780</u> ft. from (E/W) <u>W</u> Line of quarter section.		
WELL ACTIVITY <input type="checkbox"/> Brine Disposal <input checked="" type="checkbox"/> Enhanced Recovery <input type="checkbox"/> Hydrocarbon Storage	TYPE OF PERMIT <input type="checkbox"/> Individual <input checked="" type="checkbox"/> Area Number of Wells <u>111</u>	
Lease Name <u>Ute Indian Tribe</u>		Well Number <u>UTE TRIBAL 33-14-D3</u>

INJECTION PRESSURE				TOTAL VOLUME INJECTED		TUBING - CASING ANNULUS PRESSURE (OPTIONAL MONITORING)	
MONTH	YEAR	AVERAGE PSIG	MAXIMUM PSIG	BBL	MCF	MINIMUM PSIG	MAXIMUM PSIG
January	16	2043	2067	196		0	0
February	16	2096	2100	3849		0	0
March	16	2109	2121	3843		0	0
April	16	2105	2119	3428		0	0
May	16	2124	2142	3984		0	0
June	16	2099	2128	3421		0	0
July	16	2104	2119	3396		0	0
August	16	2101	2122	3333		0	0
September	16	2092	2113	2960		0	0
October	16	2108	2121	3587		0	0
November	16	2080	2127	2565		0	0
December	16	2104	2119	3458		0	0

Certification

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)

Name and Official Title (Please type or print)

Chad Stevenson, Water Facilities Supervisor

Signature

Chad Stevenson U2 Entered

Date Signed

03/21/2017

Date

4/7/17

Initial

CS

Water Analysis Report

Production Company: PETROGLYPH OPERATING CO INC - EBUS

Sales Rep: James Patry

Well Name: UTE TRIBAL 33-14D3 INJ, DUCHESNE

Lab Tech: Kaitlyn Natelli

Sample Point: Well Head

Sample Date: 1/6/2017

Scaling potential predicted using ScaleSoftPitzer from
Brine Chemistry Consortium (Rice University)

Sample ID: WA-345344

Sample Specifics		Analysis @ Properties in Sample Specifics			
		Cations		Anions	
		mg/L		mg/L	
Test Date:	1/25/2017	Sodium (Na):	3885.78	Chloride (Cl):	4500.00
System Temperature 1 (°F):	300	Potassium (K):	32.14	Sulfate (SO ₄):	10.00
System Pressure 1 (psig):	2000	Magnesium (Mg):	7.36	Bicarbonate (HCO ₃):	2806.00
System Temperature 2 (°F):	130	Calcium (Ca):	24.32	Carbonate (CO ₃):	
System Pressure 2 (psig):	50	Strontium (Sr):	4.84	Hydroxide (HO):	
Calculated Density (g/ml):	1.0052	Barium (Ba):	29.01	Acetic Acid (CH ₃ COO)	
pH:	8.60	Iron (Fe):	22.39	Propionic Acid (C ₂ H ₅ COO)	
Calculated TDS (mg/L):	11355.91	Zinc (Zn):	3.81	Butanoic Acid (C ₃ H ₇ COO)	
CO ₂ in Gas (%):		Lead (Pb):	0.18	Isobutyric Acid ((CH ₃) ₂ CHCOO)	
Dissolved CO ₂ (mg/L):	0.00	Ammonia (NH ₃):		Fluoride (F):	
H ₂ S in Gas (%):		Manganese (Mn):	0.22	Bromine (Br):	
H ₂ S in Water (mg/L):	5.00	Aluminum (Al):	0.44	Silica (SiO ₂):	29.86
Tot. Suspended Solids (mg/L):		Lithium (Li):	3.02	Calcium Carbonate (CaCO ₃):	
Corrosivity (Langlier Sat. Indx)	0.00	Boron (B):	5.81	Phosphates (PO ₄):	10.27
Alkalinity:		Silicon (Si):	13.96	Oxygen (O ₂):	

Notes:

(PTB = Pounds per Thousand Barrels)

		Calcium Carbonate		Barium Sulfate		Iron Sulfide		Iron Carbonate		Gypsum CaSO ₄ ·2H ₂ O		Celestite SrSO ₄		Halite NaCl		Zinc Sulfide	
Temp (°F)	PSI	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB
130.00	50.00	1.62	20.63	0.72	6.02	4.23	4.53	3.73	16.28	0.00	0.00	0.00	0.00	0.00	0.00	10.92	1.99
149.00	267.00	1.67	20.70	0.62	5.53	4.16	4.53	3.82	16.28	0.00	0.00	0.00	0.00	0.00	0.00	10.66	1.99
168.00	483.00	1.73	20.78	0.55	5.08	4.12	4.53	3.90	16.28	0.00	0.00	0.00	0.00	0.00	0.00	10.42	1.99
187.00	700.00	1.80	20.86	0.49	4.71	4.11	4.53	3.98	16.28	0.00	0.00	0.00	0.00	0.00	0.00	10.22	1.99
206.00	917.00	1.88	20.94	0.45	4.42	4.12	4.53	4.06	16.28	0.00	0.00	0.00	0.00	0.00	0.00	10.04	1.99
224.00	1133.00	1.98	21.01	0.42	4.21	4.14	4.53	4.14	16.28	0.00	0.00	0.00	0.00	0.00	0.00	9.88	1.99
243.00	1350.00	2.07	21.07	0.40	4.09	4.18	4.53	4.20	16.28	0.00	0.00	0.00	0.00	0.00	0.00	9.75	1.99
262.00	1567.00	2.18	21.11	0.40	4.04	4.24	4.53	4.27	16.28	0.00	0.00	0.00	0.00	0.00	0.00	9.63	1.99
281.00	1783.00	2.29	21.15	0.40	4.07	4.31	4.53	4.33	16.28	0.00	0.00	0.00	0.00	0.00	0.00	9.52	1.99
300.00	2000.00	2.40	21.18	0.41	4.14	4.39	4.53	4.38	16.28	0.00	0.00	0.00	0.00	0.00	0.00	9.44	1.99

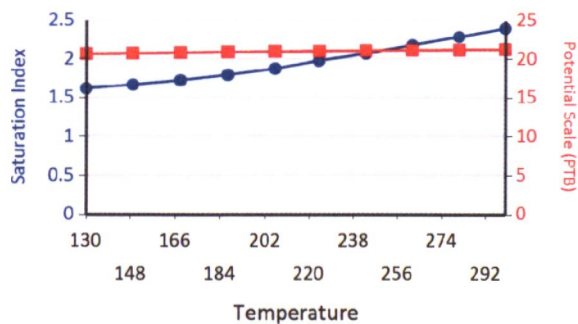
Water Analysis Report

Temp (°F)	PSI	Hemihydrate CaSO ₄ ~0.5H ₂ O		Anhydrate CaSO ₄		Calcium Fluoride		Zinc Carbonate		Lead Sulfide		Mg Silicate		Ca Mg Silicate		Fe Silicate	
		SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB
130.00	50.00	0.00	0.00	0.00	0.00	0.00	0.00	2.53	2.56	11.31	0.07	3.93	13.57	2.35	19.95	13.47	17.41
149.00	267.00	0.00	0.00	0.00	0.00	0.00	0.00	2.73	2.56	10.87	0.07	4.63	14.05	2.72	21.32	13.88	17.41
168.00	483.00	0.00	0.00	0.00	0.00	0.00	0.00	2.91	2.56	10.47	0.07	5.35	14.33	3.11	22.23	14.33	17.41
187.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00	3.07	2.56	10.12	0.07	6.06	14.50	3.50	22.69	14.79	17.41
206.00	917.00	0.00	0.00	0.00	0.00	0.00	0.00	3.22	2.56	9.81	0.07	6.76	14.59	3.89	22.88	15.27	17.41
224.00	1133.00	0.00	0.00	0.00	0.00	0.00	0.00	3.35	2.56	9.53	0.07	7.44	14.64	4.28	22.95	15.74	17.41
243.00	1350.00	0.00	0.00	0.00	0.00	0.00	0.00	3.47	2.56	9.28	0.07	8.11	14.67	4.66	22.97	16.22	17.41
262.00	1567.00	0.00	0.00	0.00	0.00	0.00	0.00	3.57	2.56	9.06	0.07	8.76	14.68	5.04	22.98	16.69	17.41
281.00	1783.00	0.00	0.00	0.00	0.00	0.00	0.00	3.66	2.56	8.86	0.07	9.38	14.69	5.41	22.98	17.15	17.41
300.00	2000.00	0.00	0.00	0.00	0.00	0.00	0.00	3.73	2.56	8.68	0.07	9.98	14.70	5.76	22.98	17.60	17.41

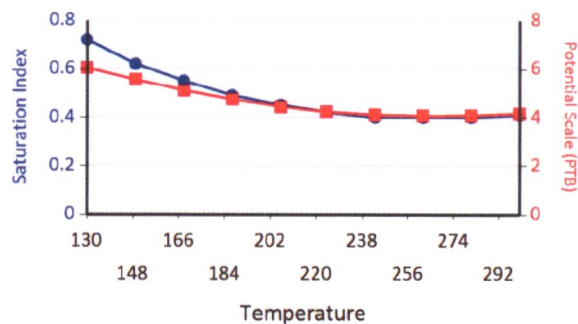
These scales have positive scaling potential under initial temperature and pressure: Calcium Carbonate Barium Sulfate Iron Sulfide Iron Carbonate Zinc Sulfide Zinc Carbonate Lead Sulfide Mg Silicate Ca Mg Silicate Fe Silicate

These scales have positive scaling potential under final temperature and pressure: Calcium Carbonate Barium Sulfate Iron Sulfide Iron Carbonate Zinc Sulfide Zinc Carbonate Lead Sulfide Mg Silicate Ca Mg Silicate Fe Silicate

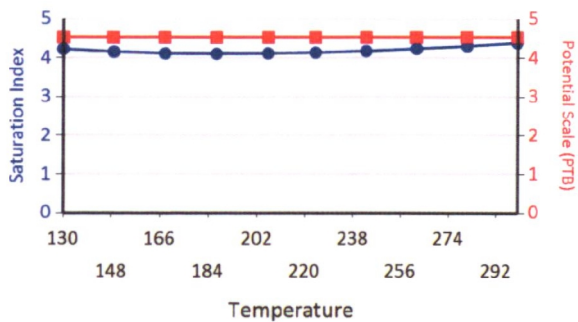
Calcium Carbonate



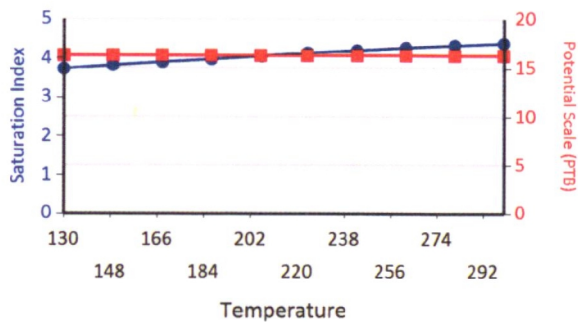
Barium Sulfate



Iron Sulfide

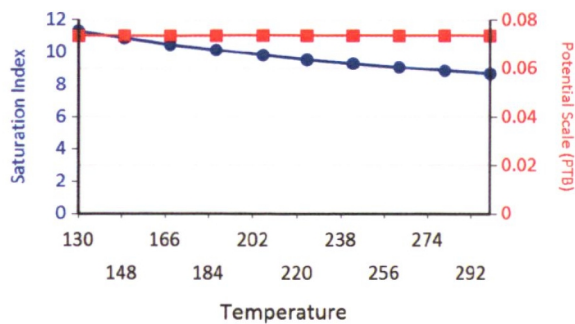


Iron Carbonate

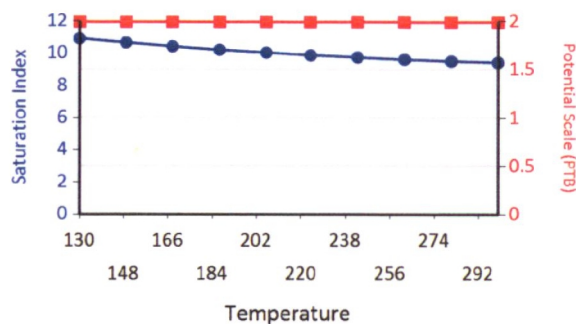


Water Analysis Report

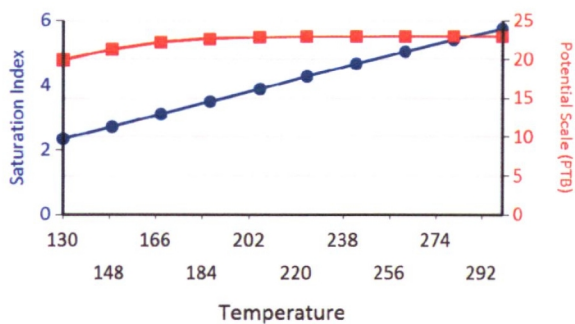
Lead Sulfide



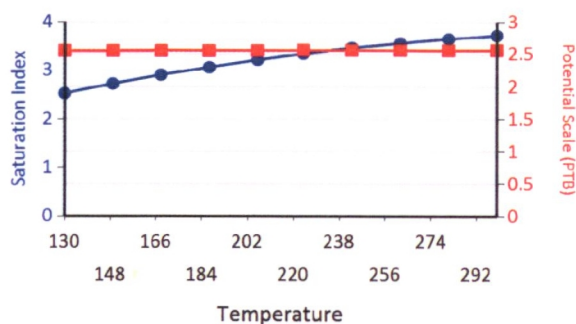
Zinc Sulfide



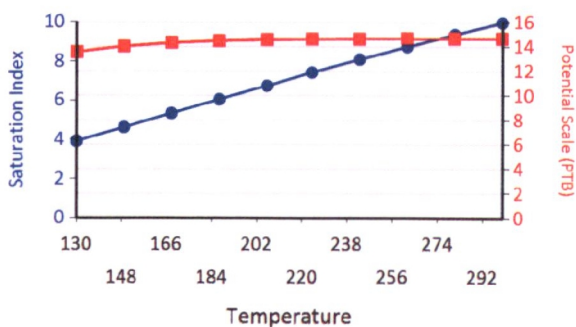
Ca Mg Silicate



Zinc Carbonate

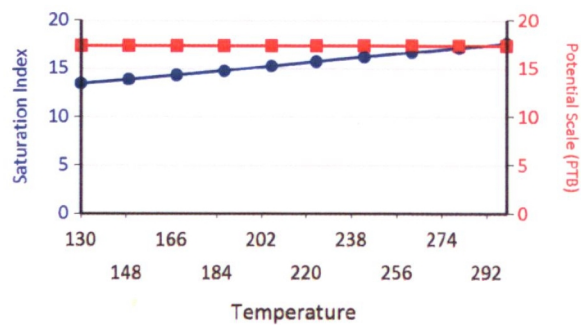


Mg Silicate



Water Analysis Report

Fe Silicate





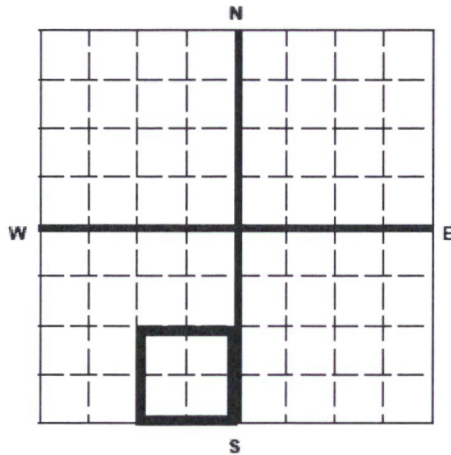
United States Environmental Protection Agency
Washington, DC 20460

ANNUAL DISPOSAL/INJECTION WELL MONITORING REPORT

Name and Address of Existing Permittee
Petroglyph Operating Company, Inc. 2258
P.O. Box 7608
Boise, Idaho 83709

Name and Address of Surface Owner
Ute Indian Tribe
P.O. Box 70
Ft. Duchesne, Utah, 84026

Locate Well and Outline Unit on
Section Plat - 640 Acres



State
Utah

County
Duchesne

Permit Number
UT2736-04434 04420

Surface Location Description

1/4 of 1/4 of SE 1/4 of SW 1/4 of Section 33 Township 4S Range 3W

Locate well in two directions from nearest lines of quarter section and drilling unit

Surface

Location 660 ft. from (N/S) S Line of quarter section
and 1780 ft. from (E/W) W Line of quarter section.

WELL ACTIVITY

- ☐ Brine Disposal
☒ Enhanced Recovery
☐ Hydrocarbon Storage

TYPE OF PERMIT

- ☐ Individual
☒ Area

Number of Wells

U2 Entered

Date 3/3/10

Initial 83

Lease Name Ute Indian Tribe

Well Number UTE TRIBAL 33-14-D3

INJECTION PRESSURE

TOTAL VOLUME INJECTED

TUBING - CASING ANNULUS PRESSURE (OPTIONAL MONITORING)

MONTH	YEAR	AVERAGE PSIG	MAXIMUM PSIG	BBL	MCF	MINIMUM PSIG	MAXIMUM PSIG
January	15	920	1292	790		0	1900
February	15	1880	2017	5547		0	0
March	15	2088	2118	6711		0	0
April	15	2105	2127	5234		0	0
May	15	2124	2147	5284		0	0
June	15	2125	2135	3686		0	0
July	15	2129	2134	5330		0	0
August	15	2125	2141	5026		0	0
September	15	2125	2148	4491		0	0
October	15	2146	2153	3283		0	0
November	15	2130	2151	3068		0	0
December	15	2101	2152	754		0	0

Certification

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)

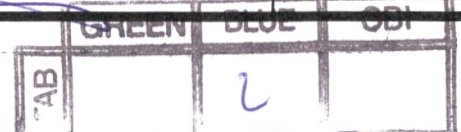
Name and Official Title (Please type or print)

Chad Stevenson, Water Facilities Supervisor

Signature

Date Signed

02/08/2016



Petroglyph Operating Company, Inc.
Annulus Pressure Cause and Mitigation Measures
EPA Annual Injection Report for Reporting Period 2015

Well Name: Ute Tribal 33-14D3

UIC Permit Number:

API Number:

Cause of Pressure and Mitigation Measures:

This well lost mechanical integrity on November 14, 2014. The rig was placed on the well on December 11th, 2014 through 22nd, 2014. Lost mechanical integrity on December 23, 2014. RO January 14, 2015, through January 20th, 2015. Reinjecting on January 26, 2015.

Please see copy of attached notice and successful MIT test submitted to EPA.



November 18, 2013

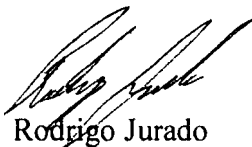
Don Breffle
Mail Code: 8ENF-UFO
US EPA Region 8
1595 Wyncoop Street
Denver, CO 80202-1129

RE: Underground Injection Control (UIC)
Notice of Violation
Loss of Mechanical Integrity
EPA Permit #UT2736-04420
Well No. Ute Tribal 33-14-D3
Antelope Creek Oil Field
Duchesne County, Utah

Dear Mr. Breffle:

Please be advised that on November 14, 2014 we lost Mechanical Integrity on the Ute Tribal 33-14-D3 Injection Well. My direct number is 435-722-5302 if you wish to contact us.

Sincerely,
Petroglyph Operating Company, Inc.



Rodrigo Jurado
Regulatory Compliance Specialist



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 8

1595 Wynkoop Street
DENVER, CO 80202-1129
Phone 800-227-8917
<http://www.epa.gov/region08>

DEC 12 2014

Ref: 8ENF-UFO

CERTIFIED MAIL 7009-3410-0000-2599-4555
RETURN RECEIPT REQUESTED

Mr. Les Farnsworth, District Supervisor
Petroglyph Operating Company, Inc.
4116 W 3000 S Ioka Lane
P.O. Box 607
Roosevelt, UT 84066

Re: Underground Injection Control (UIC)
Notice of Violation:
Loss of Mechanical Integrity
Ute Tribal 33-14-D3 Well
EPA Well ID# UT20736-04420
API # 43-013-31936
Antelope Creek Oil Field
Duchesne County, UT

Dear Mr. Farnsworth:

On November 24, 2014, the Environmental Protection Agency learned that the Petroglyph Operating Company, Inc. injection well referenced above lost mechanical integrity on November 14, 2014. Pursuant to the above-referenced UIC Permit and Title 40 of the Code of Federal Regulations Section 144.51(q)(1) (40 C.F.R. § 144.51(q)(1)), you must establish and maintain mechanical integrity. A loss of mechanical integrity is a violation of this requirement.

Pursuant to the above-referenced UIC Permit and the regulations at 40 C.F.R. § 144.51(q)(2), you must immediately cease injection into this well. Before injection may resume, you must demonstrate that the well has mechanical integrity by passing a mechanical integrity test (MIT). You must also receive written authorization from the EPA.

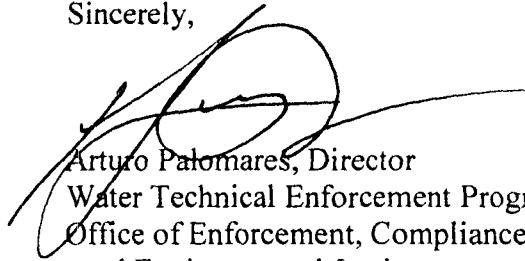
Within thirty (30) days of receipt of this letter, please submit a letter describing what action you intend to take regarding the well, including a time frame in which you anticipate the work to be completed. It is expected that you will return this well to compliance within ninety (90) days of the loss of mechanical integrity.

If you choose to plug and abandon this well, the approved plugging and abandonment plan that is incorporated into the permit must be followed. Any deviation from that plan must be submitted to the EPA for approval prior to the plugging operation.

Failure to comply with the UIC regulations found at 40 C.F.R. Parts 144 through 148 constitutes one or more violations of the Safe Drinking Water Act, 42 U.S.C. § 300h. Such non-compliance may subject you to formal enforcement by the EPA, as codified at 40 C.F.R. Part 22.

If you have any questions concerning this letter, you may contact Don Breffle at (303) 312-6198. Please direct all correspondence to the attention of Don Breffle at Mail Code 8ENF-UFO.

Sincerely,



Arturo Palomares, Director
Water Technical Enforcement Program
Office of Enforcement, Compliance
and Environmental Justice

cc: Gordon Howell, Chairman, Uintah & Ouray Business Committee
Ronald Wopsock, Vice-Chairman, Uintah & Ouray Business Committee
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Manuel Myore, Director of Energy, Minerals and Air Programs
John Rogers, Associate Director, Oil & Gas, Utah Division of Oil, Gas and Mining

December 23, 2013

EPA
ATTN: Don Breffle
Region 8
1595 Wyncoop Street
Denver, CO 80202-8917

UIC Permit #UT2736-04420
Well ID: Ute Tribal 33-14-D3
Ute Tribal No. 33-14-D3, Duchesne County, Utah

Dear Mr. Breffle,

Please find enclosed the successful MIT test on the above referenced well. This test was performed to provide proof of integrity after rigged up on the well to address a loss of mechanical integrity.

We rigged up on the well, released the injection packer and pulled the tubing, scan logging on the way out. We laid down the whole tubing string, picked up new tubing, made a bit and scrapper run past all the perforations and circulated the well. We then pulled out, picked up a new Arrowset 1 Packer and ran in breaking and doping every connection. We pressure tested the tubing and performed an MIT on the casing to 1900 psi with no loss.

Please let us know if there is a need for further action on our part and we will immediately comply. My direct number is 435-722-5302 if you wish to contact us.

Sincerely,



Rodrigo Jurado
Regulatory Compliance Spc

Encl: MIT

Mechanical Integrity Test Tubing/Casing Annulus Pressure Test

U.S. Environmental Protection Agency
Underground Injection Control Program
1595 Wynkoop Street, Denver, CO 80202

EPA Witness: _____ Date: 12/22/14
Test conducted by: CHAD STEVENSON
Others present: _____

Well Name: <u>33-1403</u>	Type: ER SWD	Status: AC TA UC
Field: <u>ANTELOPE CREEK</u>		
Location: <u>33-1403</u> Sec: _____ T _____ N/S R _____ E/W County: <u>DUCHESSNE</u> State: <u>UT</u>		
Operator: <u>PETROGLYPH ENERGY</u>		
Last MIT: <u>1</u> _____		Maximum Allowable Pressure: _____ PSIG

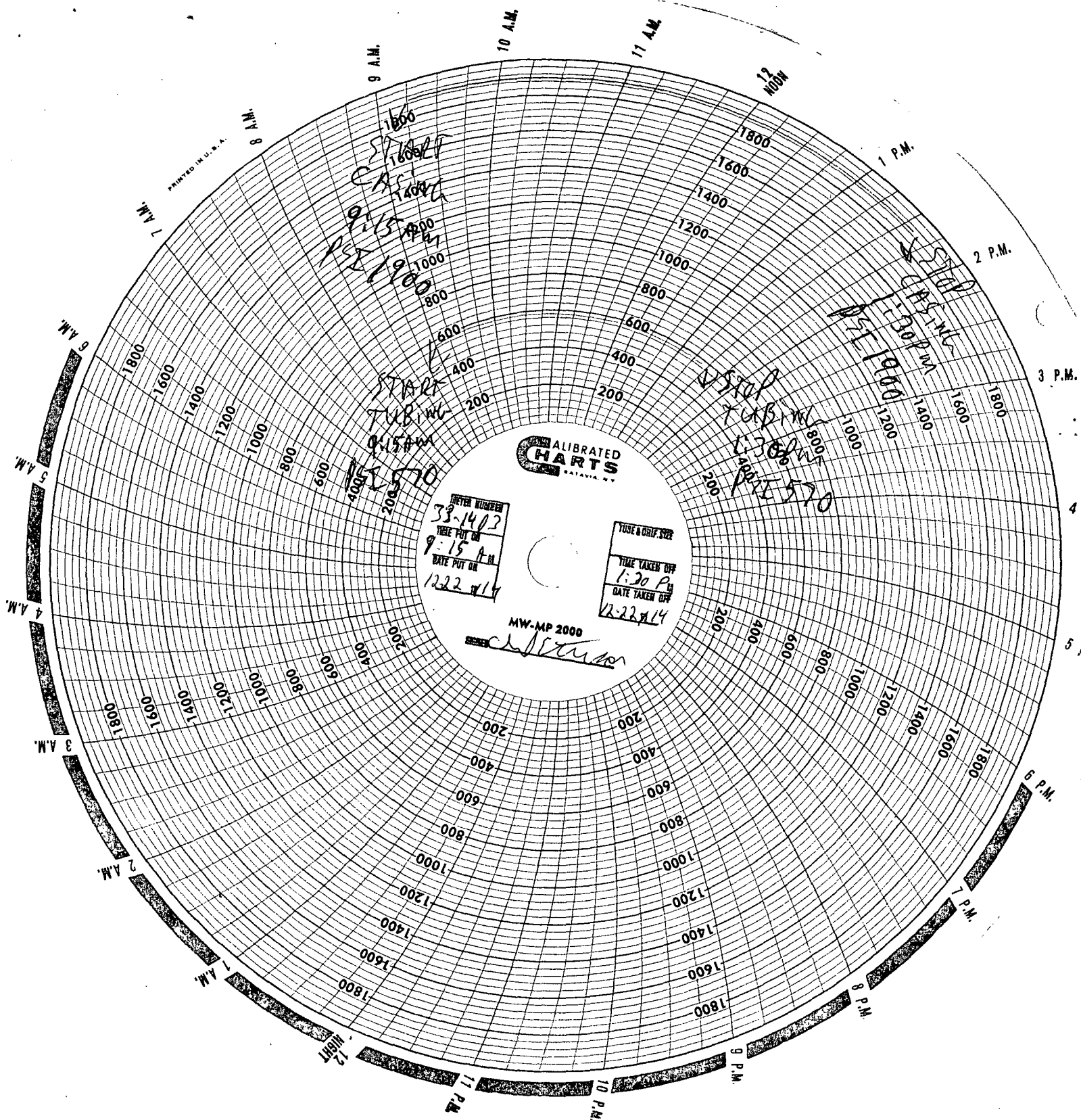
Regularly scheduled test? ☐ Yes ☐ No
Initial test for permit? ☐ Yes ☐ No
Test after well rework? ☒ Yes ☐ No

Well injecting during test? If Yes, rate: _____ bpd
Pre-test annulus pressure: _____ psig

MIT DATA TABLE	Test #1	Test #2	Test #3
TUBING	PRESSURE RECORD		
Initial Pressure	<u>570</u> psig	psig	psig
End of test pressure	<u>570</u> psig	psig	psig
CASING / TUBING ANNULUS	PRESSURE RECORD		
0 minutes	<u>1900</u> psig	psig	psig
5 minutes	<u>1900</u> psig	psig	psig
10 minutes	<u>1900</u> psig	psig	psig
15 minutes	<u>1900</u> psig	psig	psig
20 minutes	<u>1900</u> psig	psig	psig
25 minutes	<u>1900</u> psig	psig	psig
30 minutes	<u>1900</u> psig	psig	psig
<u>4 HOURS</u> minutes	<u>1900</u> psig	psig	psig
_____ minutes	psig	psig	psig
RESULT	<input type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail

Does the annulus pressure build back up after the test? If Yes, _____ psig.

PRINTED IN U.S.A.





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 8

1595 Wynkoop Street
DENVER, CO 80202-1129
Phone 800-227-8917
<http://www.epa.gov/region08>

JAN 14 2015

Ref: 8ENF-UFO

CERTIFIED MAIL 7009-3410-0000-2599-4623
RETURN RECEIPT REQUESTED

Mr. Les Farnsworth, District Supervisor
Petroglyph Operating Company, Inc.
4116 W 3000 S Ioka Lane
P.O. Box 607
Roosevelt, Utah 84066

Re: Underground Injection Control (UIC)
Permission to Resume Injection
Ute Tribal 33-14-D3 Well
EPA ID# UT20736-04420
API # 43-013-31936
Antelope Creek Oil Field
Duchesne County, UT

Dear Mr. Farnsworth:

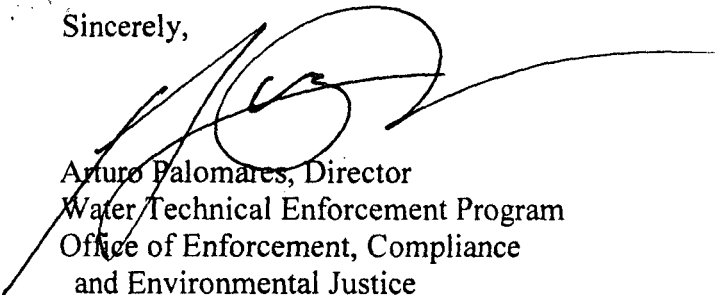
On December 29, 2014, the Environmental Protection Agency (EPA) received information from Petroglyph Operating Company, Inc. on the above referenced well concerning the workover to address a loss of mechanical integrity and the followup mechanical integrity test (MIT) conducted on December 22, 2014. The data submitted shows that the well passed the required MIT. Therefore, pursuant to Title 40 of the Code of Federal Regulations Section 144.51(q)(2) (40 C.F.R. § 144.51(q)(2)), permission to resume injection is granted. Under continuous service, the next MIT will be due on or before December 22, 2019.

Pursuant to 40 C.F.R. § 144.52(a)(6), if the well is not used for a period of at least two (2) years ("temporary abandonment"), it shall be plugged and abandoned unless the EPA is notified and procedures are described to the EPA ensuring the well will not endanger underground sources of drinking water ("non-endangerment demonstration") during its continued temporary abandonment. A successful MIT is an acceptable non-endangerment demonstration and would be necessary every two (2) years the well continues in temporary abandonment.

Failure to comply with a UIC Permit, or the UIC regulations found at 40 C.F.R. Parts 144 through 148 constitute one or more violations of the Safe Drinking Water Act, 42 U.S.C. § 300h. Such non-compliance may subject you to formal enforcement by the EPA, as codified at 40 C.F.R. Part 22.

If you have any questions concerning this letter, you may contact Don Breffle at (303) 312-6198. Please direct all correspondence to the attention of Don Breffle at Mail Code 8ENF-UFO.

Sincerely,



Arturo Palomares, Director
Water Technical Enforcement Program
Office of Enforcement, Compliance
and Environmental Justice

cc: Gordon Howell, Chairman, Uintah & Ouray Business Committee
Ronald Wopsock, Vice-Chairman, Uintah & Ouray Business Committee
Reannin Tapoof, Executive Assistant, Uintah & Ouray Business Committee
Stewart Pike, Councilman, Uintah & Ouray Business Committee
Tony Small, Councilman, Uintah & Ouray Business Committee
Bruce Ignacio, Councilman, Uintah & Ouray Business Committee
Phillip Chimburas, Councilman, Uintah & Ouray Business Committee
Manuel Myore, Director of Energy, Minerals and Air Programs
Brad Hill, Utah Division of Oil, Gas and Mining

Units of Measurement: Standard

Water Analysis Report

Production Company: PETROGLYPH OPERATING CO INC - EBUS

Sales Rep: James Patry

Well Name: UTE TRIBAL 33-14D3 INJ, DUCHESNE

Lab Tech: Michele Pike

Sample Point: Well Head

Sample Date: 1/6/2016

Scaling potential predicted using ScaleSoftPitzer from
Brine Chemistry Consortium (Rice University)

Sample ID: WA-327698

Sample Specifics		Analysis @ Properties in Sample Specifics			
		Cations		Anions	
		mg/L		mg/L	
Test Date:	1/14/2016	Sodium (Na):	2296.46	Chloride (Cl):	3000.00
System Temperature 1 (°F):	60	Potassium (K):	8.60	Sulfate (SO ₄):	320.00
System Pressure 1 (psig):	2000	Magnesium (Mg):	59.89	Bicarbonate (HCO ₃):	1220.00
System Temperature 2 (°F):	180	Calcium (Ca):	120.50	Carbonate (CO ₃):	
System Pressure 2 (psig):	50	Strontium (Sr):	5.50	Acetic Acid (CH ₃ COO)	
Calculated Density (g/ml):	1.0022	Barium (Ba):	0.68	Propionic Acid (C ₂ H ₅ COO)	
pH:	7.70	Iron (Fe):	1.74	Butanoic Acid (C ₃ H ₇ COO)	
Calculated TDS (mg/L):	7061.01	Zinc (Zn):	0.61	Isobutyric Acid ((CH ₃) ₂ CHCOO)	
CO ₂ in Gas (%):		Lead (Pb):	0.51	Fluoride (F):	
Dissolved CO ₂ (mg/L):	80.00	Ammonia (NH ₃):		Bromine (Br):	
H ₂ S in Gas (%):		Manganese (Mn):	0.08	Silica (SiO ₂):	26.44
H ₂ S in Water (mg/L):	0.00	Aluminum (Al):	0.03	Calcium Carbonate (CaCO ₃):	
Tot. Suspended Solids (mg/L):		Lithium (Li):	0.84	Phosphates (PO ₄):	4.26
Corrosivity (Langlier Sat. Indx)	0.00	Boron (B):	0.77	Oxygen (O ₂):	
Alkalinity:		Silicon (Si):	12.36		

Notes:

(PTB = Pounds per Thousand Barrels)

		Calcium Carbonate		Barium Sulfate		Iron Sulfide		Iron Carbonate		Gypsum CaSO ₄ ·2H ₂ O		Celestite SrSO ₄		Halite NaCl		Zinc Sulfide	
Temp (°F)	PSI	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB
180.00	50.00	1.56	86.64	0.51	0.28	0.00	0.00	1.87	1.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
167.00	267.00	1.41	80.24	0.53	0.29	0.00	0.00	1.70	1.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
153.00	483.00	1.31	75.56	0.56	0.29	0.00	0.00	1.58	1.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140.00	700.00	1.21	70.65	0.60	0.30	0.00	0.00	1.45	1.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
127.00	917.00	1.12	65.64	0.66	0.32	0.00	0.00	1.33	1.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
113.00	1133.00	1.04	60.65	0.72	0.33	0.00	0.00	1.21	1.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	1350.00	0.96	55.79	0.80	0.34	0.00	0.00	1.09	1.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
87.00	1567.00	0.89	51.17	0.89	0.35	0.00	0.00	0.97	1.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
73.00	1783.00	0.82	46.87	1.00	0.36	0.00	0.00	0.85	1.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60.00	2000.00	0.76	42.97	1.13	0.38	0.00	0.00	0.73	1.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

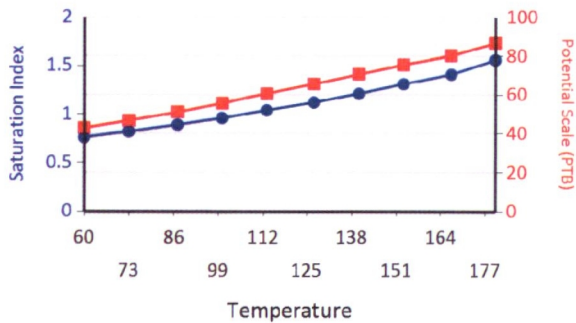
Water Analysis Report

Temp (°F)	PSI	Hemihydrate CaSO ₄ ~0.5H ₂ O		Anhydrate CaSO ₄		Calcium Fluoride		Zinc Carbonate		Lead Sulfide		Mg Silicate		Ca Mg Silicate		Fe Silicate	
		SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB
180.00	50.00	0.00	0.00	0.00	0.00	0.00	0.00	1.35	0.39	0.00	0.00	4.55	44.48	2.34	21.83	7.16	1.35
167.00	267.00	0.00	0.00	0.00	0.00	0.00	0.00	1.14	0.38	0.00	0.00	3.52	32.40	1.71	15.40	6.29	1.34
153.00	483.00	0.00	0.00	0.00	0.00	0.00	0.00	0.96	0.36	0.00	0.00	2.75	23.99	1.24	10.87	5.68	1.34
140.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.77	0.34	0.00	0.00	1.97	16.14	0.78	6.56	5.09	1.32
127.00	917.00	0.00	0.00	0.00	0.00	0.00	0.00	0.57	0.30	0.00	0.00	1.20	9.13	0.32	2.64	4.50	1.30
113.00	1133.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.23	0.00	0.00	0.42	3.03	0.00	0.00	3.93	1.28
100.00	1350.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.11	0.00	0.00	0.00	0.00	0.00	0.00	3.36	1.23
87.00	1567.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.81	1.17
73.00	1783.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.27	1.08
60.00	2000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.75	0.96

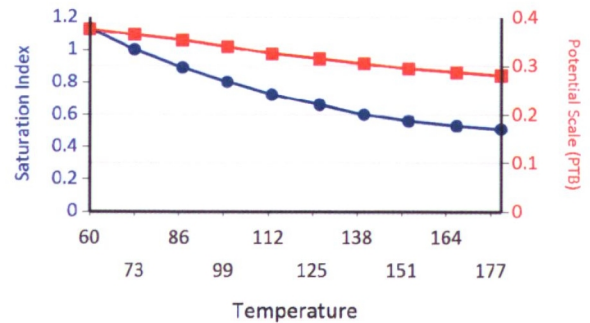
These scales have positive scaling potential under initial temperature and pressure: Calcium Carbonate Barium Sulfate Iron Carbonate Zinc Carbonate Mg Silicate Ca Mg Silicate Fe Silicate

These scales have positive scaling potential under final temperature and pressure: Calcium Carbonate Barium Sulfate Iron Carbonate Fe Silicate

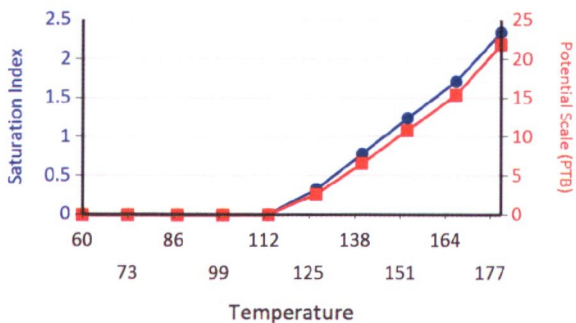
Calcium Carbonate



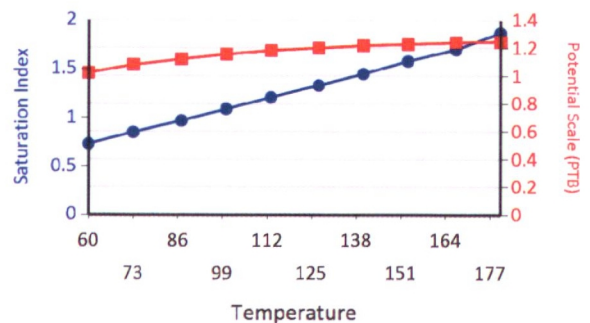
Barium Sulfate



Ca Mg Silicate

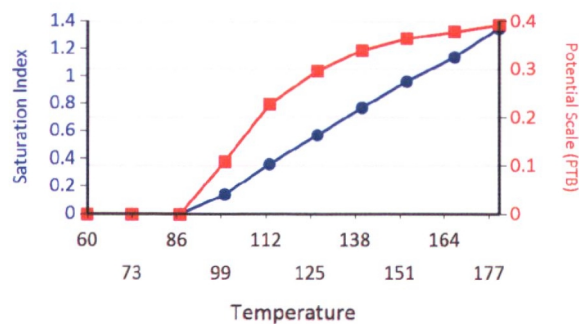


Iron Carbonate

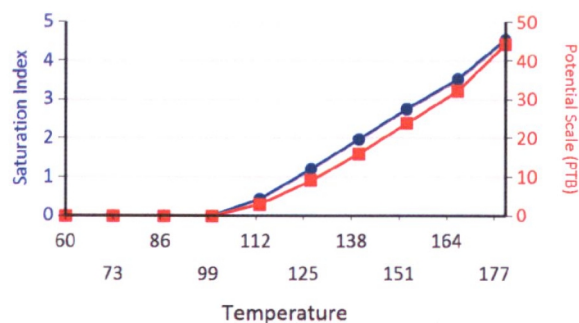


Water Analysis Report

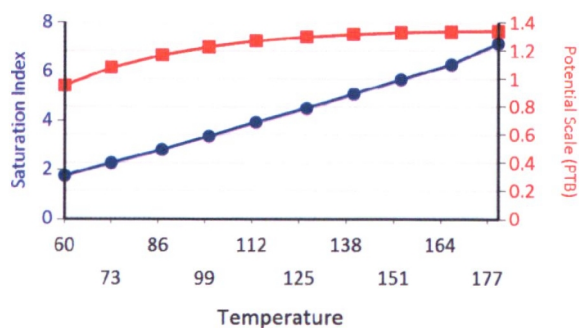
Zinc Carbonate



Mg Silicate



Fe Silicate





February 10, 2016

Underground Injection Control Enforcement
U.S. Environmental Protection Agency
Atten: Don Breffle / Gary Wang
1595 Wynkoop St.
Denver, CO 80202

RECEIVED

FEB 17 2016

Office of Enforcement, Compliance
and Environmental Justice (UFO)

Mr. Breffle and Mr. Wang:

Please find enclosed the following annual reporting materials from Petroglyph Operating Company, Inc., for its Antelope Creek Water Flood Program, Permit Number UT2736-00000:

- Annual Disposal/Injection Well Monitoring Report for each of the 111 wells
- Related supporting documentation, to include copies of notices and successful Mechanical Integrity Tests
- Water Analysis reports

During 2015, POCl experienced a loss of mechanical integrity in the following wells:

- Ute Tribal 05-08
- Ute Tribal 05-10
- Ute Tribal 19-11
- Ute Tribal 21-04
- Ute Tribal 21-15
- Ute Tribal 29-12
- Ute Tribal 33-14D3

All wells were subsequently repaired and passed a Mechanical Integrity Test. Approvals were received for all wells.

Maximum Allowable Injection Pressure was exceeded for the Ute Tribal 16-07 (October 2015), Ute Tribal 18-14 (August 2015), Ute Tribal 29-12 (May-June 2015) as a result of performing step rate tests.

Thank you for your time. If any questions, please contact me at the following number: (208) 685-9711.

Best Regards,

Nicole Colby

Manager, Land & Regulatory Compliance; Petroglyph Energy, Inc.



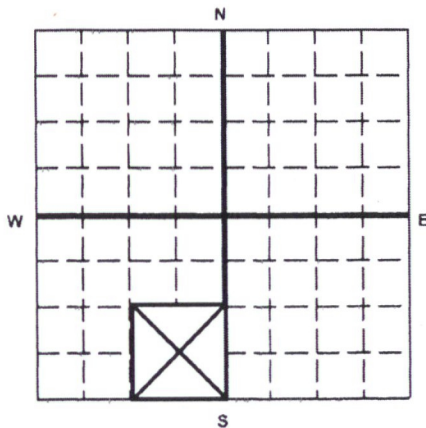
United States Environmental Protection Agency
Washington, DC 20460

ANNUAL DISPOSAL/INJECTION WELL MONITORING REPORT

Name and Address of Existing Permittee
Petroglyph Operating Company, Inc. 2258
P.O. Box 7608
Boise, Idaho 83709

Name and Address of Surface Owner
Ute Indian Tribe
P.O. Box 70
Ft. Duchesne, Utah 84026

Locate Well and Outline Unit on
Section Plat - 640 Acres



State
Utah

County
Duchesne

Permit Number
UT2736-04420

Surface Location Description

1/4 of 1/4 of SE 1/4 of SW 1/4 of Section 33 Township 4S Range 3W

Locate well in two directions from nearest lines of quarter section and drilling unit

Surface

Location 660 ft. from (N/S) S Line of quarter section
and 1780 ft. from (E/W) W Line of quarter section.

WELL ACTIVITY

- ☐ Brine Disposal
☒ Enhanced Recovery
☐ Hydrocarbon Storage

TYPE OF PERMIT

- ☐ Individual
☒ Area

Number of Wells 111

Lease Name Ute Indian Tribe

Well Number UTE TRIBAL 33-14-D3

TUBING -- CASING ANNULUS PRESSURE
(OPTIONAL MONITORING)

		INJECTION PRESSURE		TOTAL VOLUME INJECTED			
MONTH	YEAR	AVERAGE PSIG	MAXIMUM PSIG	BBL	MCF	MINIMUM PSIG	MAXIMUM PSIG
January	14	2135	2147	4781		0	0
February	14	2145	2155	4301		0	0
March	14	2145	2159	5201		0	0
April	14	2149	2163	5401		0	0
May	14	2137	2148	4948		0	0
June	14	2152	2157	5290		0	0
July	14	2120	2166	4589		0	0
August	14	2150	2161	6061		0	0
September	14	2110	2138	4460		0	0
October	14	2161	2161	6307		0	0
November	14	1318	2181	2606		0	2100
December	14	547	1110	0		0	2030

Certification

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)

Name and Official Title (Please type or print)

Chad Stevenson, Water Facilities Supervisor

Signature

Date Signed

2/10/2015

U2 Entered

Date 3/31/15

Initial GW

	GREEN	BLUE	CBI
TAB		2	

Petroglyph Operating Company, Inc.
Annulus Pressure Cause and Mitigation Measures
2014 EPA Annual Injection Report

Well Name: Ute Tribal 33-14-D3

UIC Permit Number: UT2736-04420

API Number: 43-013-31936

Cause of Pressure and Mitigation Measures:

This well lost Mechanical Integrity during the month of November and injection immediately ceased. In January a Rig was moved in and repaired the well. An MIT was performed and submitted for approval to resume injection. All pressures reported are related to the Loss of Mechanical Integrity and the Mechanical Integrity Test.



November 18, 2013

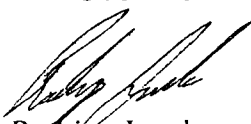
Don Breffle
Mail Code: 8ENF-UFO
US EPA Region 8
1595 Wyncoop Street
Denver, CO 80202-1129

RE: Underground Injection Control (UIC)
Notice of Violation
Loss of Mechanical Integrity
EPA Permit #UT2736-04420
Well No. Ute Tribal 33-14-D3
Antelope Creek Oil Field
Duchesne County, Utah

Dear Mr. Breffle:

Please be advised that on November 14, 2014 we lost Mechanical Integrity on the Ute Tribal 33-14-D3 Injection Well. My direct number is 435-722-5302 if you wish to contact us.

Sincerely,
Petroglyph Operating Company, Inc.

A handwritten signature in black ink, appearing to read "Rodrigo Jurado", is written over the printed name.

Rodrigo Jurado
Regulatory Compliance Specialist



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 8

1595 Wynkoop Street
DENVER, CO 80202-1129
Phone 800-227-8917
<http://www.epa.gov/region08>

DEC 12 2014

Ref: 8ENF-UFO

CERTIFIED MAIL 7009-3410-0000-2599-4555
RETURN RECEIPT REQUESTED

Mr. Les Farnsworth, District Supervisor
Petroglyph Operating Company, Inc.
4116 W 3000 S Ioka Lane
P.O. Box 607
Roosevelt, UT 84066

Re: Underground Injection Control (UIC)
Notice of Violation:
Loss of Mechanical Integrity
Ute Tribal 33-14-D3 Well
EPA Well ID# UT20736-04420
API # 43-013-31936
Antelope Creek Oil Field
Duchesne County, UT

Dear Mr. Farnsworth:

On November 24, 2014, the Environmental Protection Agency learned that the Petroglyph Operating Company, Inc. injection well referenced above lost mechanical integrity on November 14, 2014. Pursuant to the above-referenced UIC Permit and Title 40 of the Code of Federal Regulations Section 144.51(q)(1) (40 C.F.R. § 144.51(q)(1)), you must establish and maintain mechanical integrity. A loss of mechanical integrity is a violation of this requirement.

Pursuant to the above-referenced UIC Permit and the regulations at 40 C.F.R. § 144.51(q)(2), you must immediately cease injection into this well. Before injection may resume, you must demonstrate that the well has mechanical integrity by passing a mechanical integrity test (MIT). You must also receive written authorization from the EPA.

Within thirty (30) days of receipt of this letter, please submit a letter describing what action you intend to take regarding the well, including a time frame in which you anticipate the work to be completed. It is expected that you will return this well to compliance within ninety (90) days of the loss of mechanical integrity.

If you choose to plug and abandon this well, the approved plugging and abandonment plan that is incorporated into the permit must be followed. Any deviation from that plan must be submitted to the EPA for approval prior to the plugging operation.

Mechanical Integrity Test Tubing/Casing Annulus Pressure Test

U.S. Environmental Protection Agency
Underground Injection Control Program
1595 Wynkoop Street, Denver, CO 80202

EPA Witness: _____ Date: 12/22/14

Test conducted by: CHAD STEVENSON

Others present: _____

Well Name: <u>33-1403</u>	Type: ER SWD	Status: AC TA UC
Field: <u>ANTELOPE CREEK</u>		
Location: <u>33-1403</u> Sec: _____ T _____ N/S R _____ E/W County: <u>DUCHESNE</u> State: <u>UT</u>		
Operator: <u>PETROGLYPH ENERGY</u>		
Last MIT: <u>1</u> _____ Maximum Allowable Pressure: _____ PSIG		

Regularly scheduled test? ☐ Yes ☐ No
 Initial test for permit? ☐ Yes ☐ No
 Test after well rework? ☒ Yes ☐ No

Well injecting during test? If Yes, rate: _____ bpd

Pre-test annulus pressure: _____ psig

MIT DATA TABLE	Test #1	Test #2	Test #3
TUBING	PRESSURE RECORD		
Initial Pressure	<u>570</u> psig	psig	psig
End of test pressure	<u>570</u> psig	psig	psig
CASING / TUBING ANNULUS	PRESSURE RECORD		
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5 minutes	<u>1900</u> psig	psig	psig
10 minutes	<u>1900</u> psig	psig	psig
15 minutes	<u>1900</u> psig	psig	psig
20 minutes	<u>1900</u> psig	psig	psig
25 minutes	<u>1900</u> psig	psig	psig
30 minutes	<u>1900</u> psig	psig	psig
<u>4 HOURS</u> -minutes	<u>1900</u> psig	psig	psig
_____ minutes	psig	psig	psig
RESULT	<input type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail

Does the annulus pressure build back up after the test? If Yes, _____ psig.

December 23, 2013

EPA
ATTN: Don Breffle
Region 8
1595 Wyncoop Street
Denver, CO 80202-8917

UIC Permit #UT2736-04420
Well ID: Ute Tribal 33-14-D3
Ute Tribal No. 33-14-D3, Duchesne County, Utah

Dear Mr. Breffle,

Please find enclosed the successful MIT test on the above referenced well. This test was performed to provide proof of integrity after rigged up on the well to address a loss of mechanical integrity.

We rigged up on the well, released the injection packer and pulled the tubing, scan logging on the way out. We laid down the whole tubing string, picked up new tubing, made a bit and scrapper run past all the perforations and circulated the well. We then pulled out, picked up a new Arrowset 1 Packer and ran in breaking and doping every connection. We pressure tested the tubing and performed an MIT on the casing to 1900 psi with no loss.

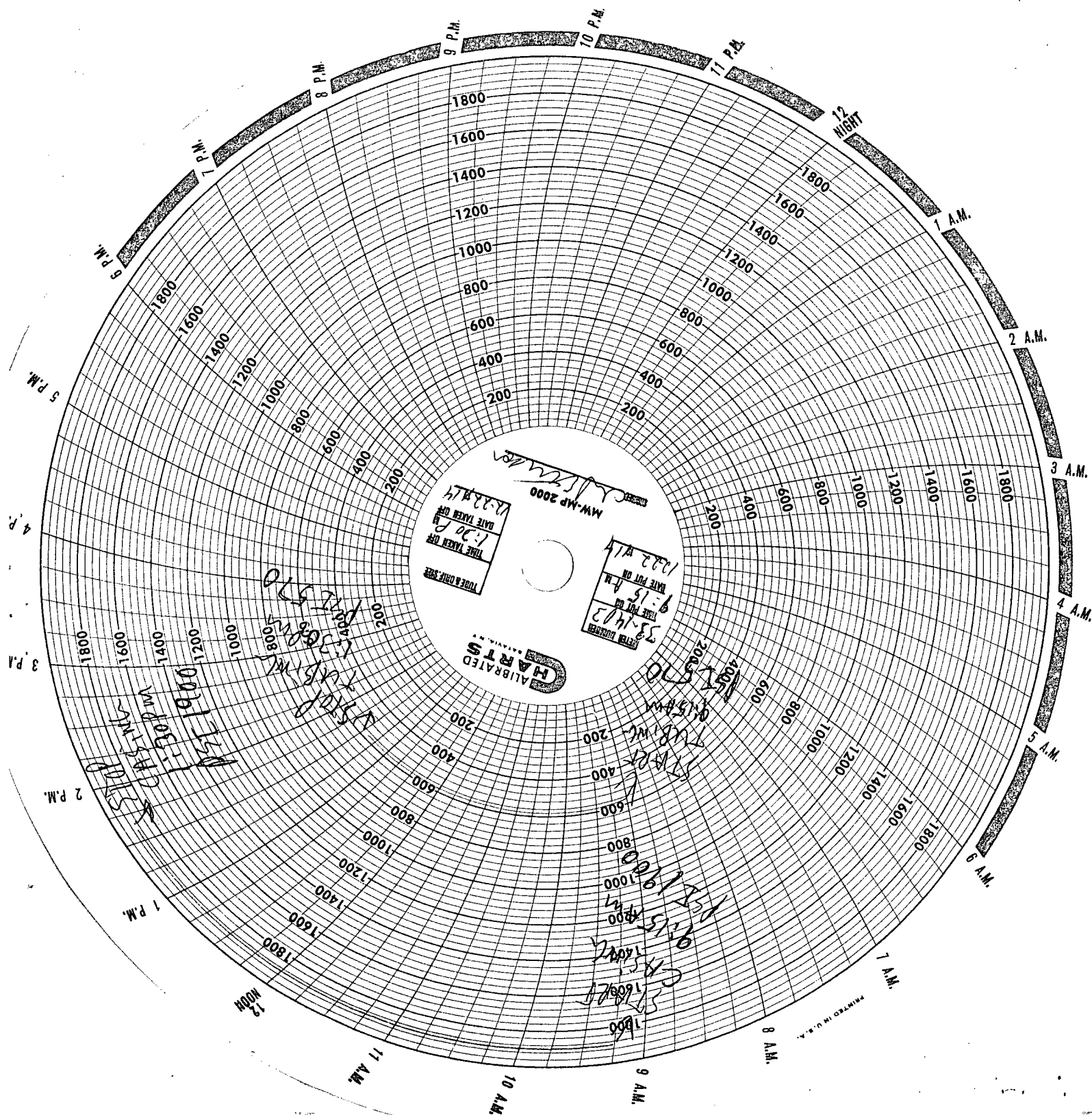
Please let us know if there is a need for further action on our part and we will immediately comply. My direct number is 435-722-5302 if you wish to contact us.

Sincerely,



Rodrigo Jurado
Regulatory Compliance Spc

Encl: MIT





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 8

1595 Wynkoop Street
DENVER, CO 80202-1129
Phone 800-227-8917
<http://www.epa.gov/region08>

JAN 14 2015

Ref: 8ENF-UFO

CERTIFIED MAIL 7009-3410-0000-2599-4623
RETURN RECEIPT REQUESTED

Mr. Les Farnsworth, District Supervisor
Petroglyph Operating Company, Inc.
4116 W 3000 S Ioka Lane
P.O. Box 607
Roosevelt, Utah 84066

Re: Underground Injection Control (UIC)
Permission to Resume Injection
Ute Tribal 33-14-D3 Well
EPA ID# UT20736-04420
API # 43-013-31936
Antelope Creek Oil Field
Duchesne County, UT

Dear Mr. Farnsworth:

On December 29, 2014, the Environmental Protection Agency (EPA) received information from Petroglyph Operating Company, Inc. on the above referenced well concerning the workover to address a loss of mechanical integrity and the followup mechanical integrity test (MIT) conducted on December 22, 2014. The data submitted shows that the well passed the required MIT. Therefore, pursuant to Title 40 of the Code of Federal Regulations Section 144.51(q)(2) (40 C.F.R. § 144.51(q)(2)), permission to resume injection is granted. Under continuous service, the next MIT will be due on or before December 22, 2019.

Pursuant to 40 C.F.R. § 144.52(a)(6), if the well is not used for a period of at least two (2) years ("temporary abandonment"), it shall be plugged and abandoned unless the EPA is notified and procedures are described to the EPA ensuring the well will not endanger underground sources of drinking water ("non-endangerment demonstration") during its continued temporary abandonment. A successful MIT is an acceptable non-endangerment demonstration and would be necessary every two (2) years the well continues in temporary abandonment.

Failure to comply with a UIC Permit, or the UIC regulations found at 40 C.F.R. Parts 144 through 148 constitute one or more violations of the Safe Drinking Water Act, 42 U.S.C. § 300h. Such non-compliance may subject you to formal enforcement by the EPA, as codified at 40 C.F.R. Part 22.

Multi-Chem Analytical Laboratory

1553 East Highway 40

Vernal, UT 84078

Units of Measurement: **Standard**

multi-chem®

A HALLIBURTON SERVICE

Water Analysis Report

Production Company: **PETROGLYPH OPERATING CO INC - EBUS**Well Name: **UTE TRIBAL 33-14D3 INJ, DUCHESNE**Sample Point: **WELLHEAD**Sample Date: **1/7/2015**Sample ID: **WA-297429**Sales Rep: **James Patry**Lab Tech: **Gary Winegar**Scaling potential predicted using ScaleSoftPitzer from
Brine Chemistry Consortium (Rice University)

Sample Specifics		Analysis @ Properties in Sample Specifics			
		Cations		Anions	
		mg/L		mg/L	
Test Date:	1/14/2015	Sodium (Na):	172.66	Chloride (Cl):	1000.00
System Temperature 1 (°F):	160	Potassium (K):	1.71	Sulfate (SO ₄):	334.00
System Pressure 1 (psig):	1300	Magnesium (Mg):	73.35	Bicarbonate (HCO ₃):	610.00
System Temperature 2 (°F):	80	Calcium (Ca):	153.30	Carbonate (CO ₃):	
System Pressure 2 (psig):	15	Strontium (Sr):	4.44	Acetic Acid (CH ₃ COO)	
Calculated Density (g/ml):	0.9988	Barium (Ba):	0.14	Propionic Acid (C ₂ H ₅ COO)	
pH:	6.50	Iron (Fe):	1.69	Butanoic Acid (C ₃ H ₇ COO)	
Calculated TDS (mg/L):	2380.54	Zinc (Zn):	3.80	Isobutyric Acid ((CH ₃) ₂ CHCOO)	
CO ₂ in Gas (%):		Lead (Pb):	0.00	Fluoride (F):	
Dissolved CO ₂ (mg/L):	40.00	Ammonia NH ₃ :		Bromine (Br):	
H ₂ S in Gas (%):		Manganese (Mn):	0.06	Silica (SiO ₂):	25.39
H ₂ S in Water (mg/L):	5.00				

Notes:

B=.75 Al=.03 Li=.21

(PTB = Pounds per Thousand Barrels)

		Calcium Carbonate		Barium Sulfate		Iron Sulfide		Iron Carbonate		Gypsum CaSO ₄ ·2H ₂ O		Celestite SrSO ₄		Halite NaCl		Zinc Sulfide	
Temp (°F)	PSI	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB
80.00	14.00	0.00	0.00	0.75	0.07	0.86	0.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.46	1.98
88.00	157.00	0.00	0.00	0.66	0.07	0.71	0.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.21	1.98
97.00	300.00	0.00	0.00	0.58	0.06	0.70	0.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.10	1.98
106.00	443.00	0.00	0.00	0.52	0.06	0.70	0.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.99	1.98
115.00	585.00	0.00	0.00	0.45	0.05	0.70	0.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.90	1.98
124.00	728.00	0.00	0.00	0.40	0.05	0.72	0.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.81	1.98
133.00	871.00	0.02	2.03	0.35	0.05	0.74	0.73	0.05	0.12	0.00	0.00	0.00	0.00	0.00	0.00	8.74	1.98
142.00	1014.00	0.07	6.68	0.30	0.04	0.76	0.74	0.11	0.28	0.00	0.00	0.00	0.00	0.00	0.00	8.67	1.98
151.00	1157.00	0.12	11.43	0.26	0.04	0.79	0.75	0.18	0.41	0.00	0.00	0.00	0.00	0.00	0.00	8.60	1.98
160.00	1300.00	0.17	16.27	0.23	0.04	0.83	0.76	0.24	0.53	0.00	0.00	0.00	0.00	0.00	0.00	8.54	1.98

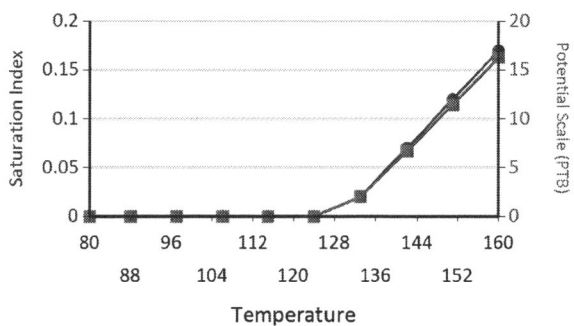
		Hemihydrate CaSO ₄ ·0.5H ₂ O		Anhydrate CaSO ₄		Calcium Fluoride		Zinc Carbonate		Lead Sulfide		Mg Silicate		Ca Mg Silicate		Fe Silicate	
Temp (°F)	PSI	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB
80.00	14.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
88.00	157.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
97.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
106.00	443.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
115.00	585.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
124.00	728.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
133.00	871.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
142.00	1014.00	0.00	0.00	0.00	0.00	0.00	0.00	0.34	1.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
151.00	1157.00	0.00	0.00	0.00	0.00	0.00	0.00	0.46	1.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160.00	1300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.58	1.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Water Analysis Report

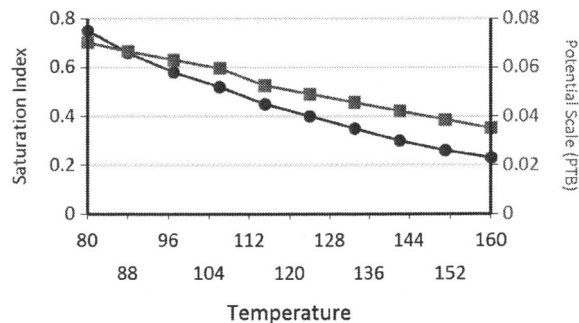
These scales have positive scaling potential under initial temperature and pressure: Barium Sulfate Iron Sulfide Zinc Sulfide

These scales have positive scaling potential under final temperature and pressure: Calcium Carbonate Barium Sulfate Iron Sulfide Iron Carbonate Zinc Sulfide Zinc Carbonate

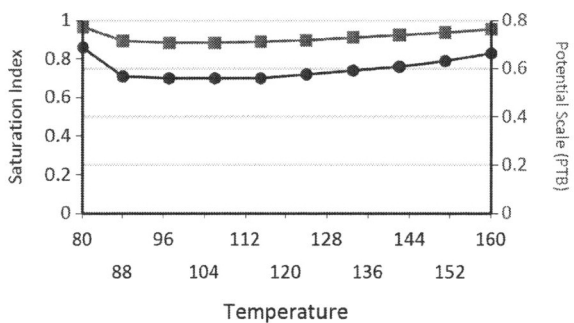
Calcium Carbonate



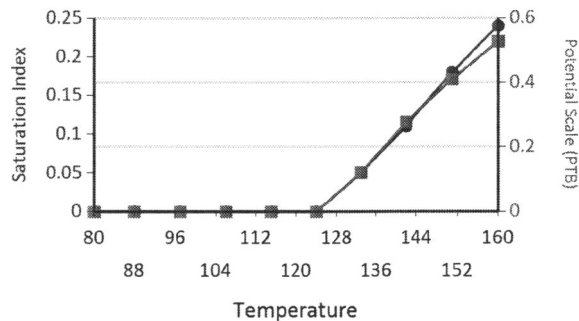
Barium Sulfate



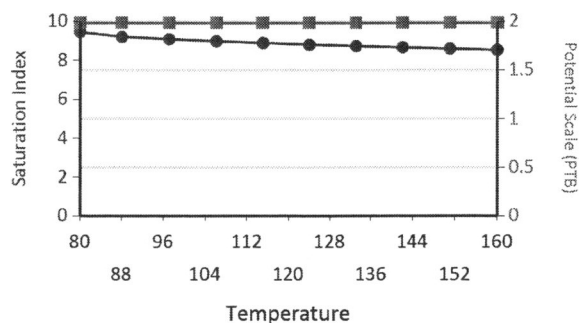
Iron Sulfide



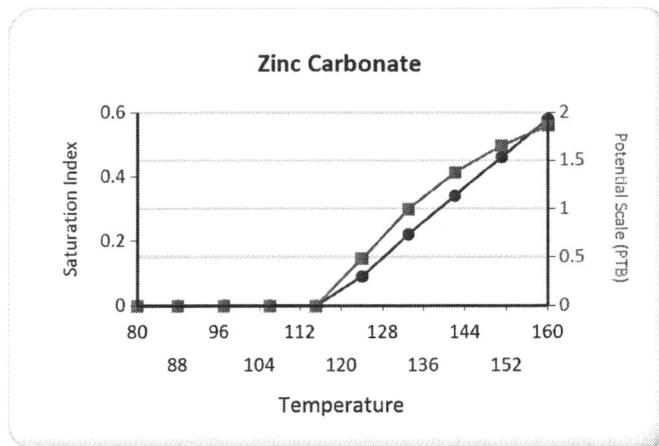
Iron Carbonate



Zinc Sulfide



Water Analysis Report



RECEIVED

DEC 29 2014

Office of Enforcement, Compliance
and Environmental Justice (Water)

December 23, 2013

EPA
ATTN: Don Breffle
Region 8
1595 Wyncoop Street
Denver, CO 80202-8917

UIC Permit #UT2736-04420
Well ID: Ute Tribal 33-14-D3
Ute Tribal No. 33-14-D3, Duchesne County, Utah

Dear Mr. Breffle,

Please find enclosed the successful MIT test on the above referenced well. This test was performed to provide proof of integrity after rigged up on the well to address a loss of mechanical integrity.

We rigged up on the well, released the injection packer and pulled the tubing, scan logging on the way out. We laid down the whole tubing string, picked up new tubing, made a bit and scrapper run past all the perforations and circulated the well. We then pulled out, picked up a new Arrowset 1 Packer and ran in breaking and doping every connection. We pressure tested the tubing and performed an MIT on the casing to 1900 psi with no loss.

Please let us know if there is a need for further action on our part and we will immediately comply. My direct number is 435-722-5302 if you wish to contact us.

Sincerely,



Rodrigo Jurado
Regulatory Compliance Spc

Encl: MIT

TAB	GREEN	BLUE	CBI
		✓	

U2 Entered

Date 12/31/14

Initial YJ

Mechanical Integrity Test Tubing/Casing Annulus Pressure Test

U.S. Environmental Protection Agency
Underground Injection Control Program
1595 Wynkoop Street, Denver, CO 80202

EPA Witness: _____ Date: 12/22/14

Test conducted by: CHAD STEVENSON

Others present: _____

Well Name: <u>33-1403</u>	Type: ER SWD	Status: AC TA UC
Field: <u>ANTELOPE CREEK</u>		
Location: <u>33-1403</u> Sec: _____ T _____ N/S R _____ E/W County: <u>DUCHESNE</u> State: <u>UT</u>		
Operator: <u>PETROGLYPH ENERGY</u>		
Last MIT: <u>1</u> <u>1</u>		Maximum Allowable Pressure: _____ PSIG

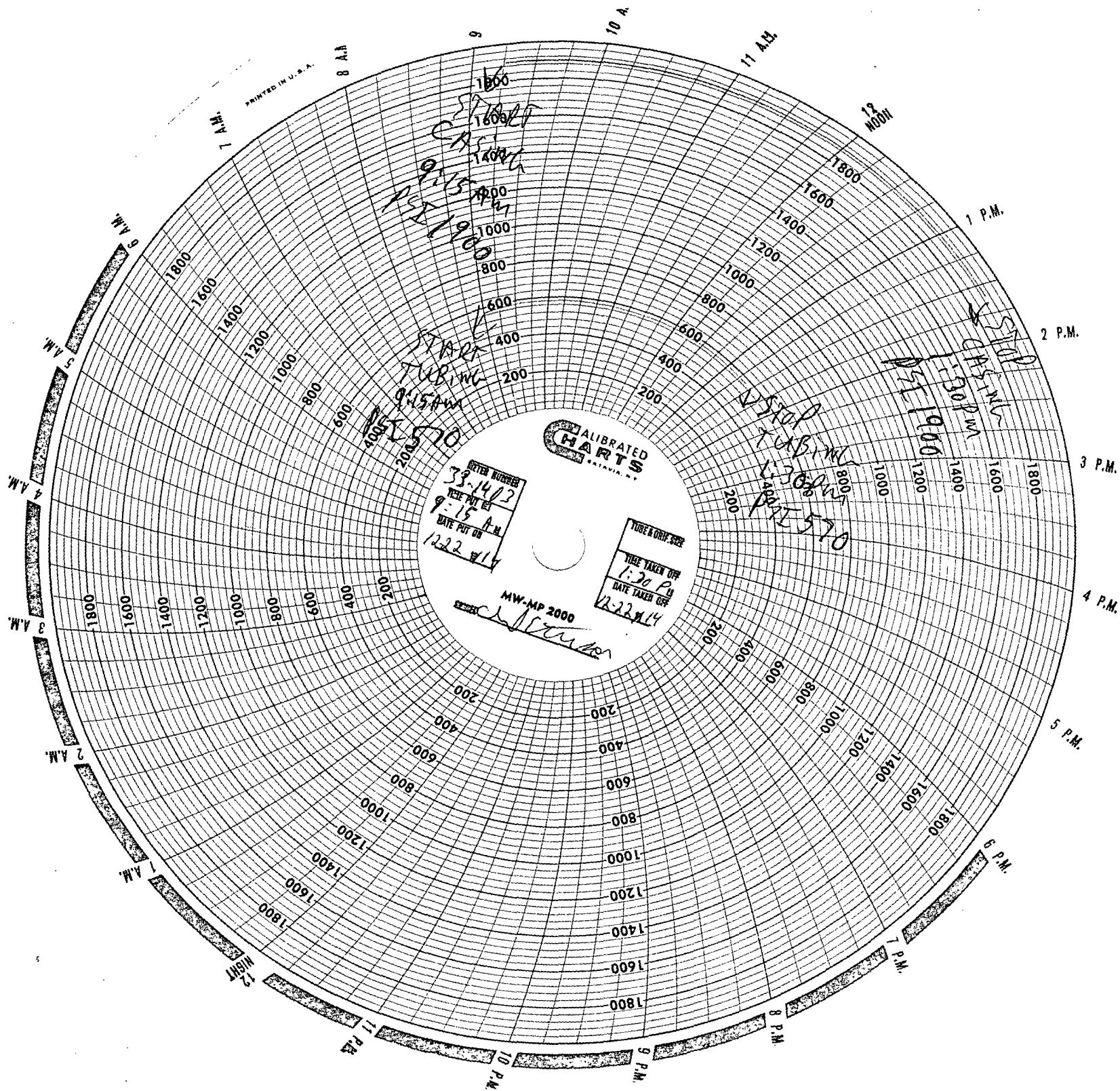
Regularly scheduled test? ☐ Yes ☐ No
 Initial test for permit? ☐ Yes ☐ No
 Test after well rework? ☒ Yes ☐ No

Well injecting during test? If Yes, rate: _____ bpd

Pre-test annulus pressure: _____ psig

MIT DATA TABLE	Test #1	Test #2	Test #3
TUBING	PRESSURE RECORD		
Initial Pressure	<u>570</u> psig	psig	psig
End of test pressure	<u>570</u> psig	psig	psig
CASING / TUBING ANNULUS	PRESSURE RECORD		
0 minutes	<u>1900</u> psig	psig	psig
5 minutes	<u>1900</u> psig	psig	psig
10 minutes	<u>1900</u> psig	psig	psig
15 minutes	<u>1900</u> psig	psig	psig
20 minutes	<u>1900</u> psig	psig	psig
25 minutes	<u>1900</u> psig	psig	psig
30 minutes	<u>1900</u> psig	psig	psig
<u>4 HOURS</u> minutes	<u>1900</u> psig	psig	psig
_____ minutes	psig	psig	psig
RESULT	<input type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail

Does the annulus pressure build back up after the test? If Yes, _____ psig.





United States Environmental Protection Agency
Washington, DC 20460

ANNUAL DISPOSAL/INJECTION WELL MONITORING REPORT

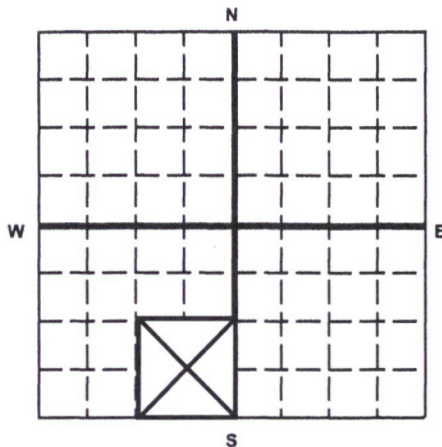
Name and Address of Existing Permittee

Petroglyph Operating Company, Inc. 2258
P.O. Box 7608
Boise, Idaho 83709

Name and Address of Surface Owner

Ute Indian Tribe
P.O. Box 70
Ft. Duchesne, Utah 84026

Locate Well and Outline Unit on
Section Plat - 640 Acres



State

Utah

County

Duchesne

Permit Number

UT2736-04420

Surface Location Description

1/4 of 1/4 of SE 1/4 of SW 1/4 of Section 33 Township 4S Range 3W

Locate well in two directions from nearest lines of quarter section and drilling unit

Surface

Location 660 ft. from (N/S) S Line of quarter section
and 1780 ft. from (E/W) W Line of quarter section.

WELL ACTIVITY

- ☐ Brine Disposal
☒ Enhanced Recovery
☐ Hydrocarbon Storage

TYPE OF PERMIT

- ☐ Individual
☒ Area

Number of Wells 111

Lease Name Ute Indian Tribe

Well Number UTE TRIBAL 33-14-D3

INJECTION PRESSURE

TOTAL VOLUME INJECTED

TUBING - CASING ANNULUS PRESSURE (OPTIONAL MONITORING)

MONTH	YEAR	AVERAGE PSIG	MAXIMUM PSIG	BBL	MCF	MINIMUM PSIG	MAXIMUM PSIG
January	13	2090	2118	3996		0	0
February	13	2131	2150	5441		0	0
March	13	2075	2117	4296		0	0
April	13	2118	2127	5079		0	0
May	13	2137	2147	5981		0	0
June	13	2064	2143	3281		0	0
July	13	2038	2056	3273		0	0
August	13	2042	2057	3290		0	0
September	13	2082	2107	4041		0	0
October	13	2101	2117	4371		0	0
November	13	2130	2140	4901		0	0
December	13	2117	2131	4277		0	0

Certification

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)

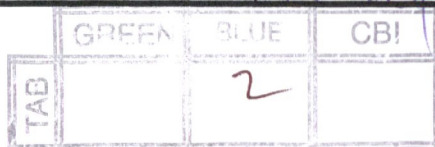
Name and Official Title (Please type or print)

Chad Stevenson, Water Facilities Supervisor

Signature

Date Signed

2/11/2014



U2 Entered

Date

3/2/14

Initial

SB

Multi-Chem Analytical Laboratory

1553 East Highway 40

Vernal, UT 84078

Units of Measurement: Standard

multi-chem®

A HALLIBURTON SERVICE

Water Analysis Report

Production Company: PETROGLYPH ENERGY INC

Well Name: UTE TRIBAL 33-14D3 INJ

Sample Point: Wellhead

Sample Date: 1/8/2014

Sample ID: WA-263011

Sales Rep: James Patry

Lab Tech: Gary Winegar

Scaling potential predicted using ScaleSoftPitzer from
Brine Chemistry Consortium (Rice University)

Sample Specifics		Analysis @ Properties in Sample Specifics			
Test Date:	1/15/2014	Cations	mg/L	Anions	mg/L
System Temperature 1 (°F):	180	Sodium (Na):	4589.79	Chloride (Cl):	6000.00
System Pressure 1 (psig):	1300	Potassium (K):	57.00	Sulfate (SO4):	0.00
System Temperature 2 (°F):	60	Magnesium (Mg):	8.20	Bicarbonate (HCO3):	2074.00
System Pressure 2 (psig):	15	Calcium (Ca):	21.00	Carbonate (CO3):	
Calculated Density (g/ml):	1.006	Strontium (Sr):	5.00	Acetic Acid (CH3COO)	
pH:	8.50	Barium (Ba):	16.00	Propionic Acid (C2H5COO)	
Calculated TDS (mg/L):	12796.23	Iron (Fe):	1.00	Butanoic Acid (C3H7COO)	
CO2 in Gas (%):		Zinc (Zn):	0.39	Isobutyric Acid ((CH3)2CHCOO)	
Dissolved CO2 (mg/L):	0.00	Lead (Pb):	0.10	Fluoride (F):	
H2S in Gas (%):		Ammonia NH3:		Bromine (Br):	
H2S in Water (mg/L):	0.00	Manganese (Mn):	0.21	Silica (SiO2):	23.54

Notes:

B=5 Al=0 Li=1.3

(PTB = Pounds per Thousand Barrels)

		Calcium Carbonate		Barium Sulfate		Iron Sulfide		Iron Carbonate		Gypsum CaSO4·2H2O		Celestite SrSO4		Halite NaCl		Zinc Sulfide	
Temp (°F)	PSI	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB
60.00	14.00	1.22	16.82	0.00	0.00	0.00	0.00	1.69	0.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
73.00	157.00	1.23	16.85	0.00	0.00	0.00	0.00	1.75	0.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
86.00	300.00	1.24	16.92	0.00	0.00	0.00	0.00	1.82	0.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	443.00	1.27	16.99	0.00	0.00	0.00	0.00	1.89	0.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
113.00	585.00	1.29	17.08	0.00	0.00	0.00	0.00	1.95	0.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
126.00	728.00	1.33	17.18	0.00	0.00	0.00	0.00	2.02	0.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140.00	871.00	1.36	17.28	0.00	0.00	0.00	0.00	2.08	0.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
153.00	1014.00	1.40	17.37	0.00	0.00	0.00	0.00	2.14	0.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
166.00	1157.00	1.44	17.48	0.00	0.00	0.00	0.00	2.20	0.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.00	1300.00	1.49	17.57	0.00	0.00	0.00	0.00	2.25	0.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

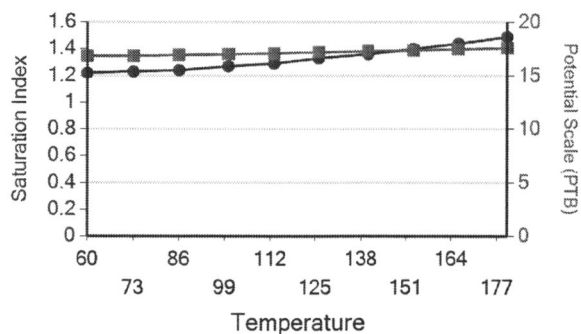
Water Analysis Report

Temp (°F)	PSI	Hemihydrate CaSO ₄ •0.5H ₂ O		Anhydrate CaSO ₄		Calcium Fluoride		Zinc Carbonate		Lead Sulfide		Mg Silicate		Ca Mg Silicate		Fe Silicate	
		SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB
60.00	14.00	0.00	0.00	0.00	0.00	0.00	0.00	0.32	0.14	0.00	0.00	0.00	0.00	0.00	0.00	6.19	0.77
73.00	157.00	0.00	0.00	0.00	0.00	0.00	0.00	0.52	0.18	0.00	0.00	0.26	1.83	0.00	0.00	6.40	0.77
86.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.71	0.21	0.00	0.00	0.79	4.50	0.15	1.56	6.67	0.77
100.00	443.00	0.00	0.00	0.00	0.00	0.00	0.00	0.89	0.23	0.00	0.00	1.33	6.92	0.43	3.42	6.97	0.77
113.00	585.00	0.00	0.00	0.00	0.00	0.00	0.00	1.06	0.24	0.00	0.00	1.87	9.03	0.72	5.19	7.28	0.77
126.00	728.00	0.00	0.00	0.00	0.00	0.00	0.00	1.22	0.25	0.00	0.00	2.43	10.83	1.02	6.84	7.62	0.77
140.00	871.00	0.00	0.00	0.00	0.00	0.00	0.00	1.36	0.25	0.00	0.00	2.98	12.32	1.32	8.35	7.96	0.77
153.00	1014.00	0.00	0.00	0.00	0.00	0.00	0.00	1.50	0.25	0.00	0.00	3.54	13.50	1.63	9.70	8.32	0.78
166.00	1157.00	0.00	0.00	0.00	0.00	0.00	0.00	1.63	0.26	0.00	0.00	4.09	14.39	1.94	10.87	8.68	0.78
180.00	1300.00	0.00	0.00	0.00	0.00	0.00	0.00	1.74	0.26	0.00	0.00	4.63	15.04	2.25	11.85	9.05	0.78

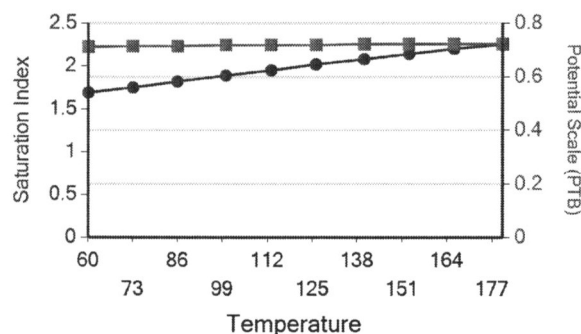
These scales have positive scaling potential under initial temperature and pressure: Calcium Carbonate Iron Carbonate Zinc Carbonate Fe Silicate

These scales have positive scaling potential under final temperature and pressure: Calcium Carbonate Iron Carbonate Zinc Carbonate Mg Silicate Ca Mg Silicate Fe Silicate

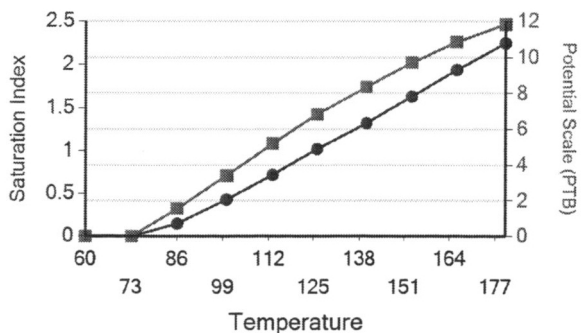
Calcium Carbonate



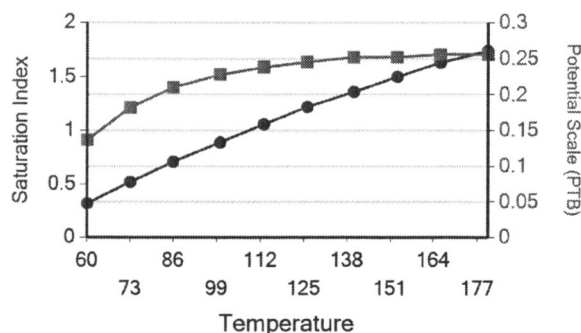
Iron Carbonate



Ca Mg Silicate

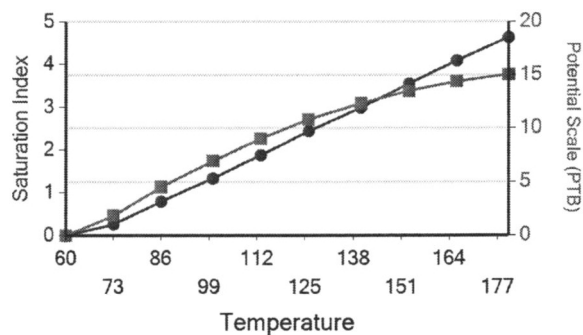


Zinc Carbonate

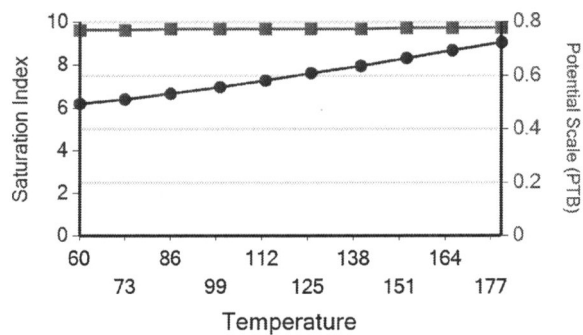


Water Analysis Report

Mg Silicate



Fe Silicate



February 3, 2014

Don Breffle
Mail Code: 8ENF-UFO
US EPA Region 8
1595 Wyncoop Street
Denver, CO 80202-1129

RE: EPA AREA PERMIT NO. UT2736-04420
Mechanical Integrity Test
Standard Five year retesting for Ute Tribal 33-14-D3

Mr. Breffle:

The enclosed Mechanical Integrity Test was performed on the above referenced well on January 16, 2014. This MIT was performed because the well was due for the regular five year Mechanical Integrity Test.

If you need any more information please call at (435) 722-5302.

Sincerely,
Petroglyph Operating Co., Inc.



Rodrigo Jurado
Regulatory Compliance Specialist

Encl: MIT for the Ute Tribal 33-14-D3

	GREEN	BLUE	CBI
TAB		2	

U2 Entered

Date 4/1/14

Initial DB

Mechanical Integrity Test Tubing/Casing Annulus Pressure Test

U.S. Environmental Protection Agency
Underground Injection Control Program
1595 Wynkoop Street, Denver, CO 80202

EPA Witness: _____ Date: 1/16/14
Test conducted by: CHAD STEVENSON
Others present: _____

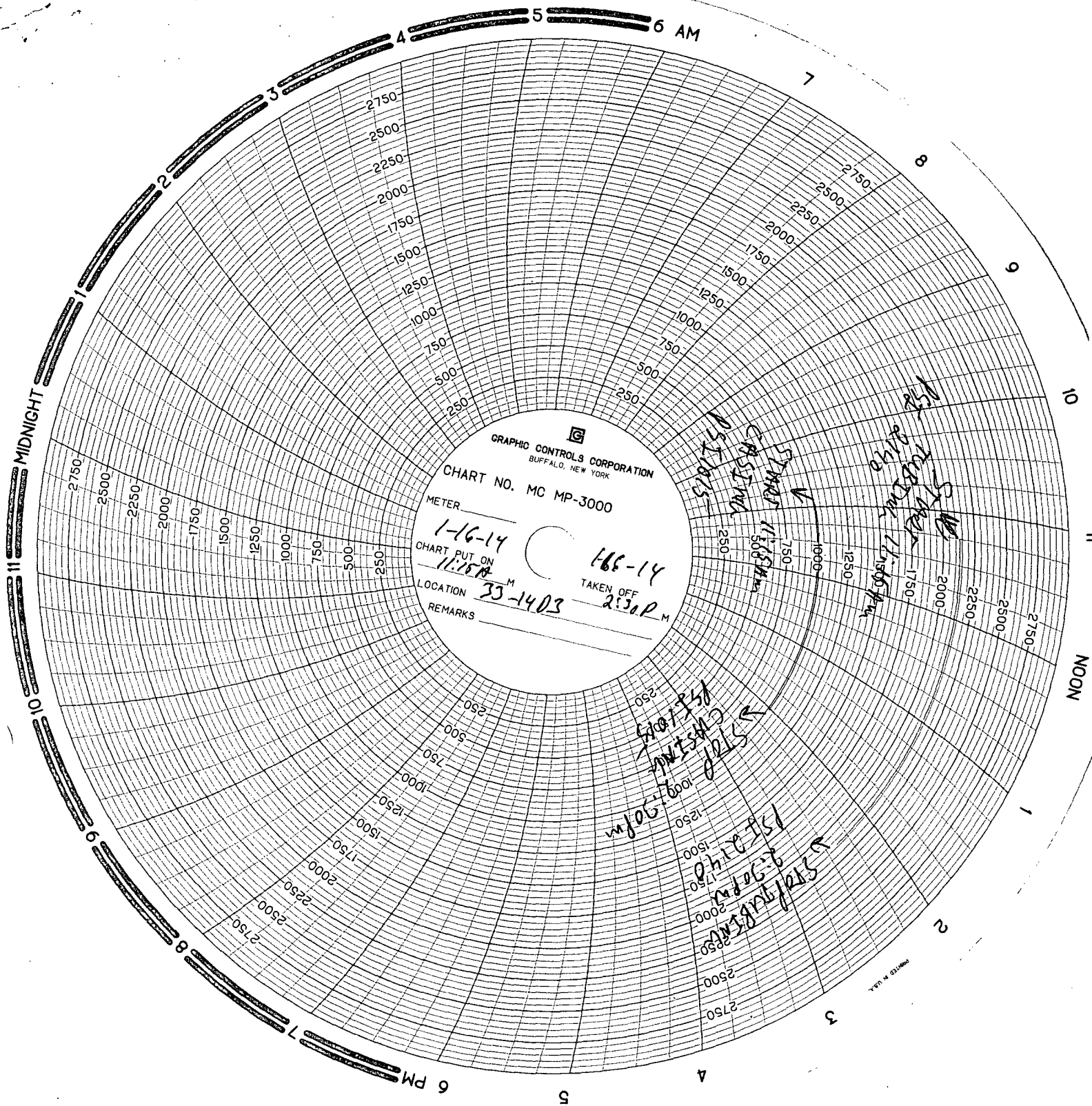
Well Name: <u>33-1402</u>	Type: ER SWD	Status: AC TA UC
Field: <u>ANTELOPE CREEK</u>		
Location: <u>22-1402</u> Sec: _____ T _____ N/S R _____ E/W County: <u>DUCHESNE</u> State: <u>UT</u>		
Operator: <u>PETROGLYPH ENERGY</u>		
Last MIT: <u>1</u> / <u>1</u>		Maximum Allowable Pressure: _____ PSIG

Regularly scheduled test? ☒ Yes [] No
Initial test for permit? [] Yes [] No
Test after well rework? [] Yes [] No

Well injecting during test? If Yes, rate: 13 bpd
Pre-test annulus pressure: _____ psig

MIT DATA TABLE	Test #1	Test #2	Test #3
TUBING	PRESSURE RECORD		
Initial Pressure	<u>2140</u> psig	psig	psig
End of test pressure	<u>2140</u> psig	psig	psig
CASING / TUBING ANNULUS	PRESSURE RECORD		
0 minutes	<u>1015</u> psig	psig	psig
5 minutes	<u>1015</u> psig	psig	psig
10 minutes	<u>1015</u> psig	psig	psig
15 minutes	<u>1015</u> psig	psig	psig
20 minutes	<u>1015</u> psig	psig	psig
25 minutes	<u>1015</u> psig	psig	psig
30 minutes	<u>1015</u> psig	psig	psig
<u>3 Hours</u> minutes	<u>1015</u> psig	psig	psig
_____ minutes	psig	psig	psig
RESULT	[] Pass [] Fail	[] Pass [] Fail	[] Pass [] Fail

Does the annulus pressure build back up after the test? If Yes, _____ psig.





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 8
999 18TH STREET - SUITE 500
DENVER, CO 80202-2466

JAN 20 1999

Ref: 8P-W-GW

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Mrs. Deanna Bell, Operations Coordinator
Petroglyph Operating Company, Inc.
4116 West 3000 South Ioka Lane
P.O. Box 607
Roosevelt, UT 84066

Re: AUTHORIZATION TO COMMENCE INJECTION
Ute Tribal #33-14D3 (UT04420)
EPA AREA PERMIT UT2736-00000
Duchesne County, Utah

Dear Mrs. Bell:

Thank you for submitting information pertaining to Ute Tribal #33-14D3 to the Environmental Protection Agency (EPA) Region VIII Groundwater Program. Requirements of UIC Permit UT2736-04420 Part II Sections (C) (2) "Prior To Commencing Injection" required submittal of the following information:

1. Well Rework Record (EPA Form 7520-12) with after conversion well schematic,
2. Successfully run Mechanical Integrity Test (MIT) with pressure chart,
3. Injection zone fluid pore pressure survey.

All required information has been submitted, and has been reviewed and approved by the EPA. Petroglyph has complied with all pertinent conditions of UIC Area Permit UT2736-00000 Part II Section (C) (2). Therefore, effective upon your receipt of this letter, Administrative approval hereby is granted for injection into the Ute Tribal #33-14D3 under the conditions of UIC Permit UT2736-04420. The Director has determined that the maximum surface injection pressure for the Ute Tribal #33-14D3 shall not exceed 2369 psig.



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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 8
999 18TH STREET - SUITE 500
DENVER, CO 80202-2466

JAN 20 1999

*See under
UT 20736 - 04420
Authorization to
Inject Final*

Ref: 8P-W-GW

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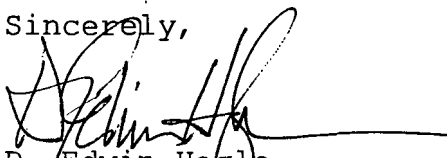
Please be reminded that it is the responsibility of the permittee to be aware of, and to comply with, all conditions of the permit. Effective upon receipt of this letter, EPA administration of this well is transferred to Mr. John Carson, Compliance Officer in the Office of Enforcement, Compliance, and Environmental Justice Technical Enforcement Program, who is your point of contact for routine compliance matters and reports.

Please send all reporting forms and other required correspondence to Mr. Carson at the address listed below, referencing EPA WELL ID: UT04420 on all reports and correspondence.

Mr. John Carson,
Technical Enforcement Program, Mail Code 8ENF-T
U.S. Environmental Protection Agency
999 18th Street, Suite 500
Denver, Colorado, USA, 80202-2466

If you have any questions concerning this authorization or the permit, please contact Mr. Dan Jackson of my staff at 303.312.6155 or Mr. Carson at 303.312.6203.

Sincerely,



D. Edwin Hogle
Director, Groundwater Program
Office of Partnerships and
Regulatory Assistance

cc: Mr. Ronald Wopsock, Chairman
Uintah & Ouray Business Committee
Ute Indian Tribe

Ms. Elaine Willie, Environmental Director
Ute Indian Tribe

Mr. Norman Cambridge
BIA - Uintah & Ouray Agency

Mr. Gil Hunt
State of Utah Natural Resources
Division of Oil, Gas, and Mining

Mr. Jerry Kenczka
BLM - Vernal District Office

Is your RETURN ADDRESS completed on the reverse side?

SENDER: 1/20/99 CW 3446C **JAN 21 1999**

- Complete items 1 and/or 2 for additional services.
- Complete items 3, 4a, and 4b.
- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write "Return Receipt Requested" on the mailpiece below the article number.
- The Return Receipt will show to whom the article was delivered and the date delivered.

(116) Trial #33-14D3

I also wish to receive the following services (for an extra fee):

- ☐ Addressee's Address
- ☐ Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:

Mrs. Deanna Bell
Operations Coordinator
Petroglyph Operating Co., Inc.
4116 West 3000 South Ioka Lane
P.O. Box 607
Roosevelt, UT 84066

4a. Article Number
P 380 306 114

4b. Service Type

☐ Registered ☒ Certified
☐ Express Mail ☐ Insured
☐ Return Receipt for Merchandise ☐ COD

7. Date of Delivery
1-26-99

8. Addressee's Address (Only if requested and fee is paid) **neil 24**
FEB 18 1999

5. Received By: (Print Name)

6. Signature: (Addressee or Agent)
X

PS Form 3811, December 1994 102595-97-B-0179 Domestic Return Receipt

Thank you for using Return Receipt Service.

P 380 306 114

1/20/99 CW 3446C
 US Postal Service
Receipt for Certified Mail
 No Insurance Coverage Provided.
 Do not use for International Mail (See reverse)

Sent to
Mrs. Deanna Bell
Operations Coordinator
Petroglyph Operating Co., Inc.
4116 West 3000 South Ioka Lane
P.O. Box 607
Roosevelt, UT 84066

Postage \$
 Certified Fee \$
 Special Delivery Fee \$
 Restricted Delivery Fee \$
 Return Receipt Showing to Whom & Date Delivered \$
 Return Receipt Showing to Whom, Date, & Addressee's Address \$
TOTAL Postage & Fees \$
 Postmark or Date

PS Form 3800, April 1995



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 8
999 18TH STREET - SUITE 500
DENVER, CO 80202-2466

JAN 20 1999

CONCURRENCE COPY

Ref: 8P-W-GW

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Concur

CEW
1/14/99

BP-W-GW
D. Jackson
1-19/99

reconnection
BP-W-GW
01/20/99 LG
mplied
01/20/99 LG

Handwritten signature and date 1/20/99



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Technical Enforcement Program, Mail Code 8ENF-T
U.S. Environmental Protection Agency
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Denver, Colorado, USA, 80202-2466

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Sincerely,

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